					ST DEPARTMENT DIVISION O	OF NA					AMEN	FC NDED REPC	ORM 3	
		APP	LICATION	FOR P	PERMIT TO DRILL	L				1. WELL NAME and		: R W-3-9-16		
2. TYPE	OF WORK	RILL NEW WELL (I	REENT	ER P&A	. WELL (DEEPE	EN WELL				3. FIELD OR WILDO		NT BUTTE		
4. TYPE (OF WELL	Oil	Well	Coalbed	I Methane Well: NO					5. UNIT or COMMU		TION AGR (GRRV)	EEMENT	NAME
6. NAME	OF OPERATOR	2			TION COMPANY					7. OPERATOR PHON	1E	16-4825		
8. ADDRI	ESS OF OPERA									9. OPERATOR E-MA	IL			
10. MINE	RAL LEASE N	UMBER	Rt 3 Box 36.		ton, UT, 84052 11. MINERAL OWNE	ERSHIP	mcrozier@newfield.com P 12. SURFACE OWNERSHIP							
(FEDERA	L, INDIAN, OF	R STATE) UTU-76813			FEDERAL (IND	DIAN 🛑) STATE () FEE(0	FEDERAL D INC	DIAN 🛑	STAT		FEE 🔵
13. NAM	13. NAME OF SURFACE OWNER (if box 12 = 'fee')									14. SURFACE OWNE	R PHO	NE (if box	12 = 'fe	ee')
15. ADDI	RESS OF SURF	ACE OWNER (if b	ox 12 = 'fee	')						16. SURFACE OWN	R E-MA	AIL (if box	c 12 = 'f	ee')
		OR TRIBE NAME			18. INTEND TO COM		LE PRODUCT	ION FROM	1	19. SLANT				
(If box 1	2 = 'INDIAN')				400		gling Applicati	on) NO (0	VERTICAL DIR	ECTION	AL 📵	HORIZON	ITAL 🛑
20. LOC	ATION OF WE	LL		FOO'	TAGES	QT	r-QTR	SECT	ION	TOWNSHIP	R	ANGE	МЕ	RIDIAN
LOCATI	ON AT SURFAC	CE	6	57 FNL	2002 FEL	N	NWNE	10		9.0 S	1	6.0 E		S
Top of L	Jppermost Pro	ducing Zone	1	92 FNL	2497 FEL	N	NWNE	10		9.0 S	16.0 E			S
At Total	Depth		3	07 FSL	2284 FWL	9	SESW	3	9.0 S		6.0 E		S	
21. COU		DUCHESNE		2	22. DISTANCE TO N		T LEASE LIN 07	E (Feet)		23. NUMBER OF AC		DRILLIN	GUNIT	
					25. DISTANCE TO N (Applied For Drilling	g or Co	mpleted)	AME POOL	-	26. PROPOSED DEP	TH : 6403	TVD: 64	03	
27. ELEV	ATION - GROU	JND LEVEL		2	28. BOND NUMBER	8.	72			29. SOURCE OF DR				
		5633				WYB0	WATER RIGHTS APPROVAL NUMBER IF APPLICAE 437478					LICABLE		
					Hole, Casing,)	_				
String Surf	Hole Size	Casing Size 8.625	Length 0 - 300	Weig 24.			Max Mu			Class G		Sacks 138	Yield 1.17	Weight 15.8
Prod	7.875	5.5	0 - 6403	15.			8.3		Prem	nium Lite High Stre	ngth	304	3.26	11.0
										50/50 Poz		363	1.24	14.3
					A ⁻	ТТАСН	IMENTS	<u> </u>				1		
	VERIFY T	HE FOLLOWIN	G ARE ATT	ACHE	D IN ACCORDAN	ICE WI	TH THE UT	AH OIL	AND G	GAS CONSERVATI	ON GE	NERAL I	RULES	
WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER								PLETE DR	ILLING	PLAN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)								I 5. IF OPI	ERATOI	R IS OTHER THAN TI	HE LEAS	SE OWNEI	₹	
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)								▼ TOPOGRAPHICAL MAP						
NAME Mandie Crozier TITLE Regulatory Tech									PHO	NE 435 646-4825				
SIGNAT	URE				DATE 04/28/2011				EMAI	L mcrozier@newfield.	com			
	MBER ASSIGN 01350710(APPROVAL				B	Myson				
									Pe	ermit Manager				

NEWFIELD PRODUCTION COMPANY GMBU W-3-9-16 AT SURFACE: NW/NE SECTION 10, T9S, R16E DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

 Uinta
 0' – 1575'

 Green River
 1575'

 Wasatch
 6185'

 Proposed TD
 6403'

3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation (Oil) 1575' – 6185'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval Date Sampled Flow Rate Temperature

Hardness pH

Water Classification (State of Utah)

Dissolved Calcium (Ca) (mg/l)

Dissolved Iron (Fe) (ug/l)

Dissolved Sodium (Na) (mg/l)

Dissolved Carbonate (CO₃) (mg/l)

Dissolved Bicarbonate (NaHCO₃) (mg/l)

Dissolved Sulfate (SO₄) (mg/l)

Dissolved Total Solids (TDS) (mg/l)

4. PROPOSED CASING PROGRAM

a. Casing Design: GMBU W-3-9-16

Size	Interval		Weight	Grade	Coupling	Design Factors			
Size	Тор	Bottom	weignt	Orace	Ocupinig	Burst	Collapse	Tension	
Surface casing	0'	300'	24.0	J-55	STC	2,950	1,370	244,000	
8-5/8"	U	300	24.0	J-55	310	17.53	14.35	33.89	
Prod casing	01	6.402	15.5	1.55	LTC	4,810	4,040	217,000	
5-1/2"	0'	6,403'	15.5	J-55		2.36	1.98	2.19	

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
Pore pressure at surface casing shoe = 8.33 ppg
Pore pressure at prod casing shoe = 8.33 ppg
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cementing Design: GMBU W-3-9-16

Job	Fill	Description	Sacks ft ³	OH Excess*	Weight (ppg)	Yield (ft³/sk)
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
Surface odding	000	01000 0 W/ 270 0001	161	0070	10.0	1.17
Prod casing	4,403'	Prem Lite II w/ 10% gel + 3%	304	30%	11.0	3.26
Lead	4,403	KCI	992	30 /6	11.0	3.20
Prod casing	2,000'	50/50 Poz w/ 2% gel + 3%	363	30%	14.3	1.24
Tail	2,000	KCI	451	30%	14.3	1.24

^{*}Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. <u>MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL</u>:

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit** C for a diagram of BOP equipment that will be used on this well.

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

From surface to ± 350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ± 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. <u>AUXILIARY SAFETY EQUIPMENT TO BE USED</u>:

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. <u>TESTING, LOGGING AND CORING PROGRAMS</u>:

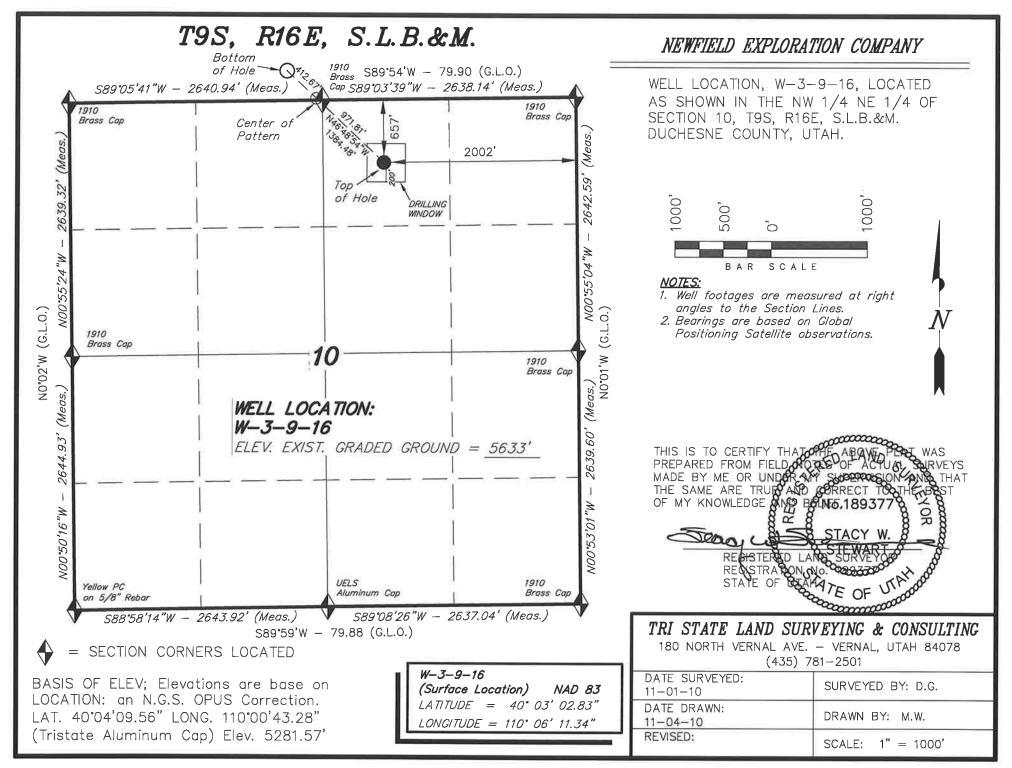
The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

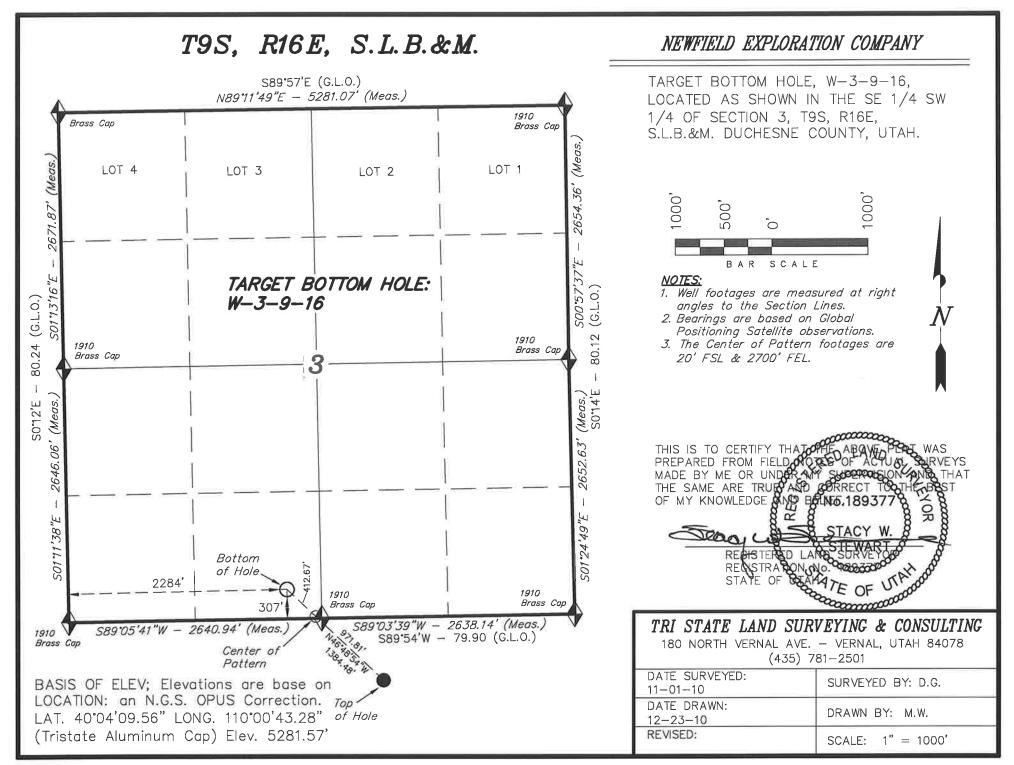
9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

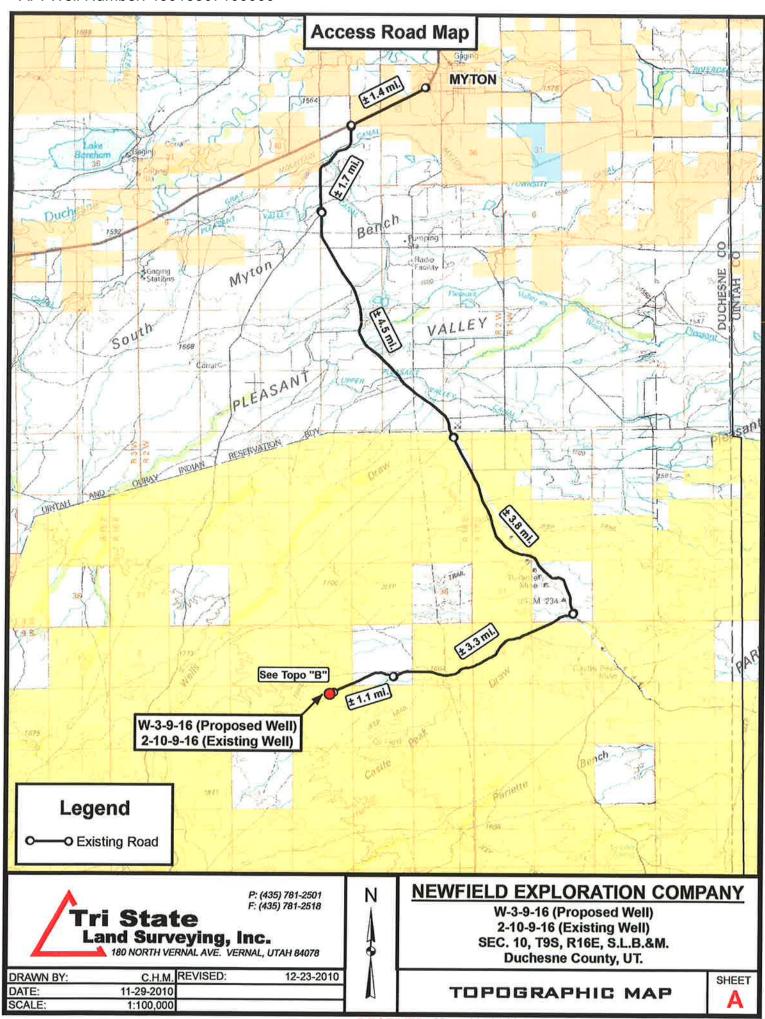
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

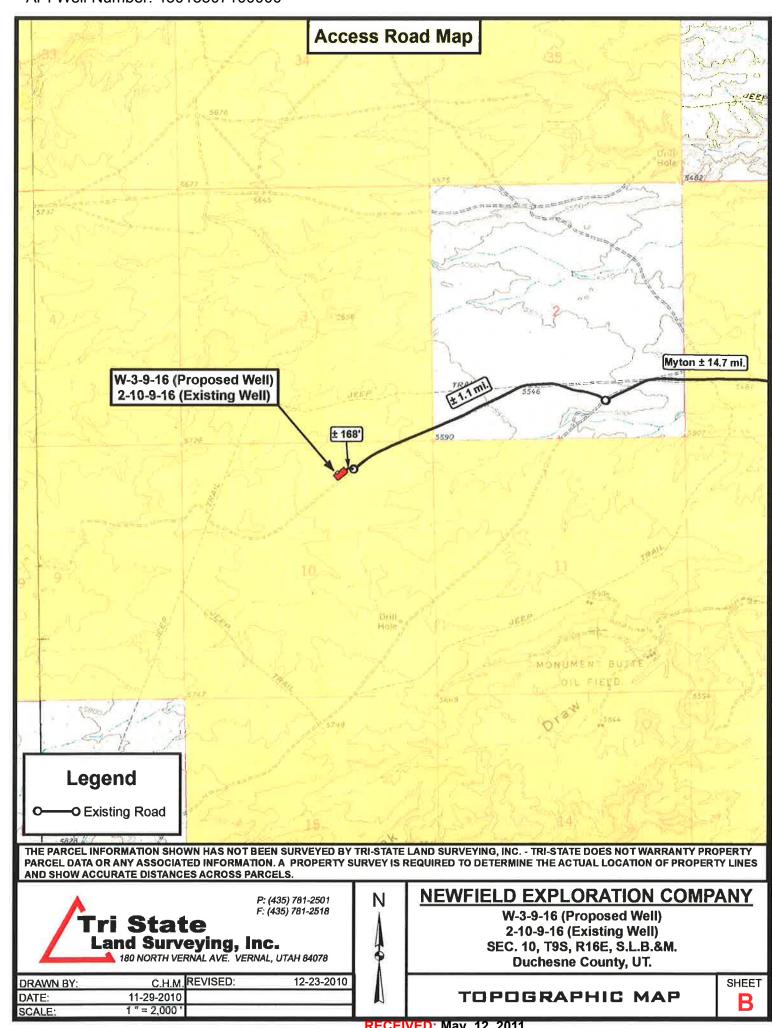
10. <u>ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:</u>

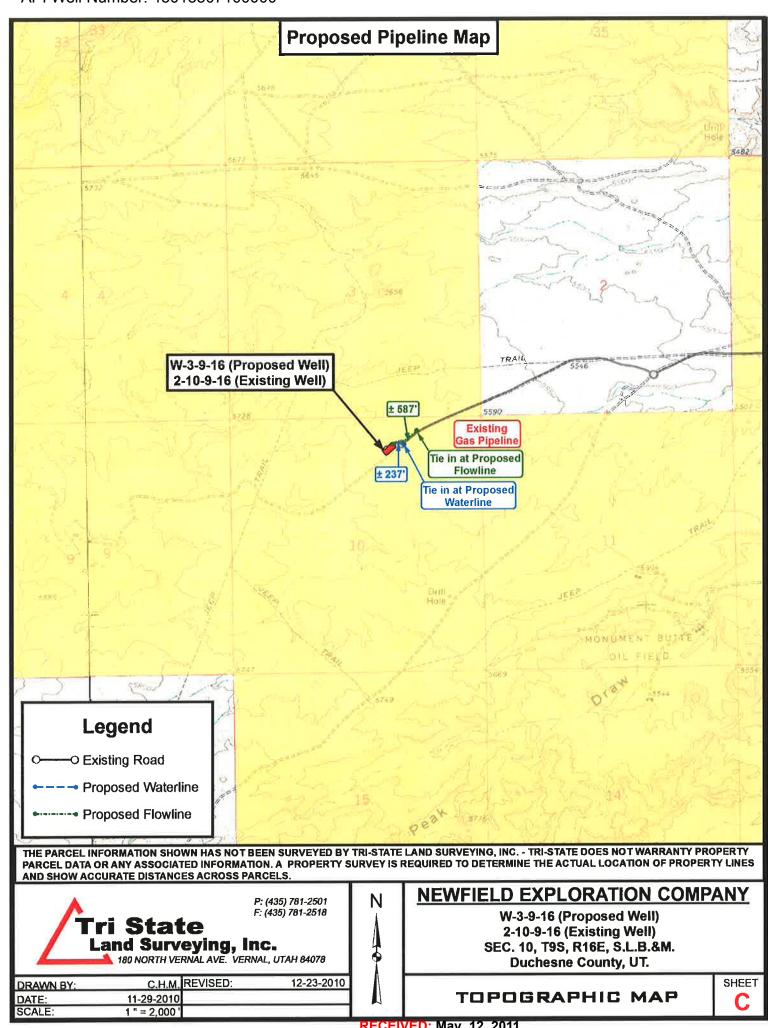
It is anticipated that the drilling operations will commence the third quarter of 2011, and take approximately seven (7) days from spud to rig release.

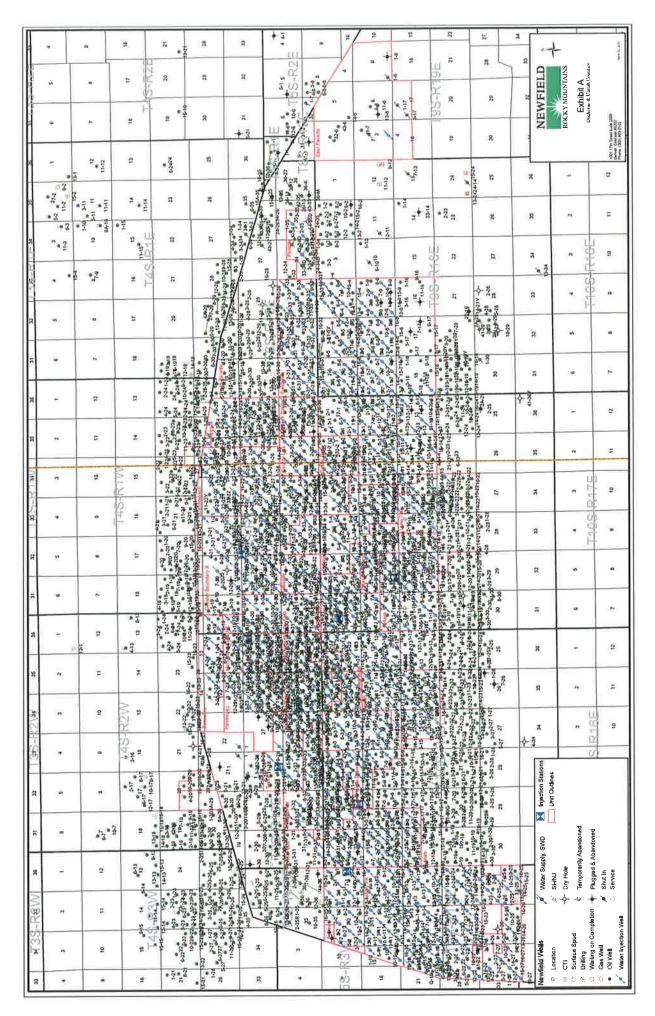


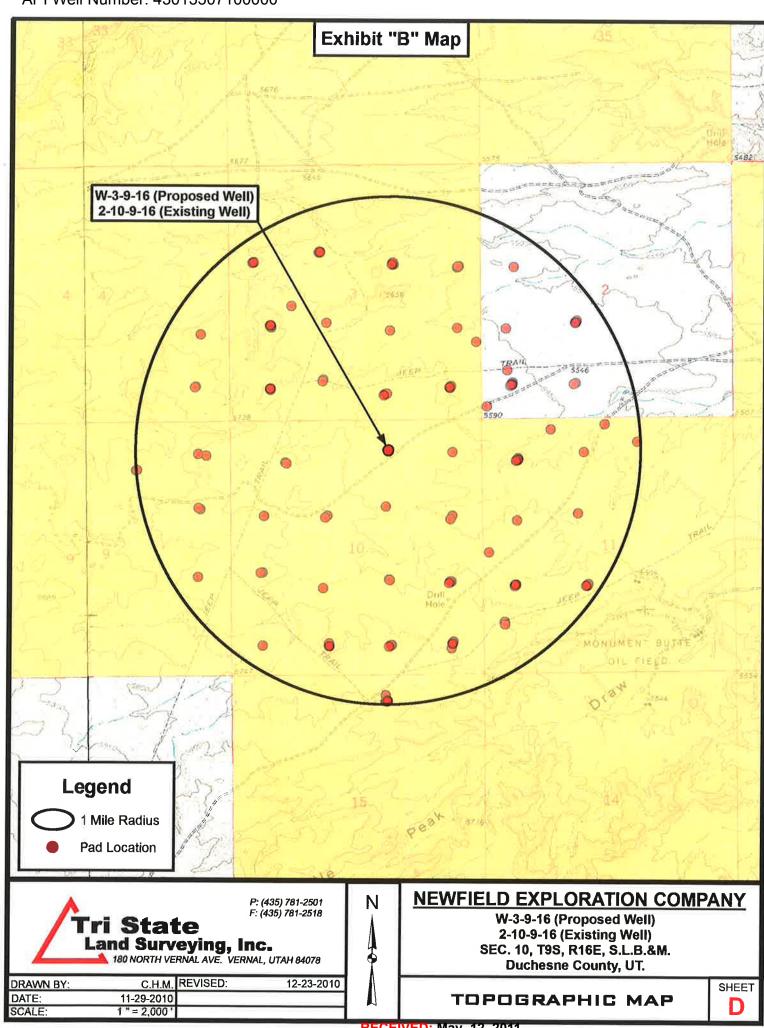














NEWFIELD EXPLORATION

USGS Myton SW (UT) SECTION 3 T9S, R16E W-3-9-16

Wellbore #1

Plan: Design #1

Standard Planning Report

18 December, 2010





PayZone Directional Services, LLC.

Planning Report



Database: Company: Project: Site: Well:

Wellbore:

Design:

EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) SECTION 3 T9S, R16E

W-3-9-16 Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well W-3-9-16

W-3-9-16 @ 5645.0ft (Newfield Rig) W-3-9-16 @ 5645.0ft (Newfield Rig)

True

Minimum Curvature

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System:

US State Plane 1983

Geo Datum: Map Zone: North American Datum 1983

Utah Central Zone

System Datum:

Mean Sea Level

Site SECTION 3 T9S, R16E

Site Position: From: Мар

Northing: Easting: Slot Radius: 7,193,000.00 ft 2,030,700.00 ft Latitude: Longitude: Grid Convergence:

gitude:

40° 3' 29.861 N

110° 6′ 20.047 W 0.89 °

Well W-

Position Uncertainty:

W-3-9-16, SHL LAT: 40 03 02.83 LONG: -110 06 11.34

Well Position

+N/-S -2,735.0 ft **+E/-W** 677.0 ft Northing: Easting: 7,190,275.86 ft 2,031,419.60 ft Latitude: Longitude: 40° 3' 2.830 N 110° 6' 11.340 W

Position Uncertainty

677.0 ft 0.0 ft

0.0 ft

Wellhead Elevation:

5,645.0 ft

Ground Level:

5,633.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/12/18	11.39	65.80	52,315

Design Design	#1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0,0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	4.700.0	0.0	0.0	313.22	

easured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0,00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,609.3	15.14	313.22	1,597.6	90.8	-96.6	1.50	1.50	0.00	313.22	
4,823.2	15.14	313.22	4,700.0	665.6	-708.3	0.00	0.00	0.00	0.00	W-3-9-16 TGT
6,403.1	15,14	313.22	6,225.0	948.1	-1,008.9	0.00	0.00	0.00	0.00	



PayZone Directional Services, LLC.

Planning Report



Database: Company: Project: Site: EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) SECTION 3 T9S, R16E

 Well:
 W-3-9-16

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well W-3-9-16

W-3-9-16 @ 5645.0ft (Newfield Rig) W-3-9-16 @ 5645.0ft (Newfield Rig)

True

Minimum Curvature

lanned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Animouth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	Inclination	Azimuth							
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0,00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0		0,00							
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	313,22	700,0	0.9	-1.0	1.3	1.50	1.50	0.00
0.008	3.00	313,22	799.9	3.6	-3.8	5.2	1.50	1,50	0.00
900.0	4.50	313,22	899.7	8.1	-8,6	11.8	1,50	1,50	0.00
								4.50	0.00
1,000.0	6.00	313,22	999.3	14.3	-15.2	20.9	1.50	1,50	0.00
1,100_0	7.50	313.22	1,098.6	22.4	-23,8	32.7	1.50	1.50	0_00
1,200.0	9.00	313.22	1,197.5	32.2	-34.3	47.0	1.50	1.50	0.00
1,300.0	10.50	313.22	1,296.1	43.8	-46.6	64.0	1.50	1.50	0.00
1,400.0	12.00	313.22	1,394.2	57.2	-60.8	83.5	1.50	1.50	0.00
1,700.0	12,00	010.22							
1,500.0	13,50	313.22	1,491.7	72.3	-76.9	105.5	1.50	1.50	0.00
1,609.3	15.14	313,22	1,597.6	90.8	-96.6	132.6	1.50	1.50	0.00
1,700.0	15.14	313.22	1,685.1	107.0	-113.9	156.3	0.00	0.00	0.00
1,800.0	15.14	313,22	1,781.7	124.9	-132.9	182.4	0.00	0.00	0.00
			·						
1,900.0	15.14	313.22	1,878.2	142.8	-151.9	208.5	0.00	0.00	0.00
2,000.0	15,14	313.22	1,974.7	160.7	-171.0	234,6	0.00	0.00	0.00
2,100.0	15.14	313.22	2,071.3	178.5	-190.0	260.7	0.00	0.00	0.00
· ·									
2,200.0	15.14	313,22	2,167.8	196.4	-209.0	286.8	0.00	0.00	0.00
2,300.0	15.14	313.22	2,264.3	214.3	-228.1	313.0	0.00	0.00	0_00
2,400.0	15.14	313.22	2,360.9	232.2	-247.1	339.1	0.00	0.00	0.00
									0.00
2,500,0	15.14	313.22	2,457.4	250.1	-266,1	365.2	0,00	0.00	0.00
2,600.0	15,14	313.22	2,553.9	268.0	-285.2	391.3	0.00	0.00	0.00
2,700.0	15.14	313.22	2,650.4	285.8	-304.2	417.4	0.00	0.00	0.00
2,800.0	15.14	313.22	2,747.0	303.7	-323.2	443.5	0.00	0.00	0.00
2,900.0	15.14	313.22	2,843.5	321.6	-342.2	469.6	0.00	0.00	0.00
2,000,0		0.153==							
3,000.0	15.14	313.22	2,940.0	339.5	-361.3	495.8	0.00	0.00	0.00
3,100.0	15.14	313.22	3,036.6	357.4	-380,3	521,9	0.00	0.00	0.00
3,200.0	15.14	313.22	3,133,1	375.3	-399.3	548.0	0.00	0.00	0.00
3,300.0	15.14	313.22	3,229.6	393.2	-418.4	574.1	0.00	0.00	0.00
	15.14	313.22	3,326.2	411.0	-437.4	600.2	0.00	0.00	0.00
3,400.0	15,14	313.22	3,320.2	411.0	-431.4	000.2	0.00	0.00	0.00
3,500.0	15,14	313.22	3,422.7	428.9	-456.4	626.3	0.00	0.00	0.00
3,600.0	15.14	313.22	3,519,2	446.8	-475.5	652.5	0.00	0.00	0.00
3,700.0	15.14	313.22	3,615.7	464.7	-494.5	67B.6	0.00	0.00	0.00
3,800.0	15.14	313.22	3,712.3	482.6	-513.5	704.7	0.00	0.00	0.00
3,900.0	15,14	313.22	3,808.8	500.5	-532.6	730.8	0.00	0.00	0.00
4 000 0	45.44	242.00	2 005 2	£40 3	-551.6	756.9	0.00	0.00	0.00
4,000.0	15:14	313.22	3,905.3	518.3					
4,100.0	15.14	313.22	4,001.9	536.2	-570.6	783.0	0.00	0.00	0.00
4,200.0	15.14	313.22	4,098.4	554.1	-589.7	809.2	0.00	0.00	0.00
4,300.0	15.14	313.22	4,194.9	572.0	-608,7	835.3	0.00	0.00	0.00
4,400.0	15.14	313.22	4,291.4	589.9	-627.7	861.4	0.00	0.00	0.00
4,500.0	15.14	313.22	4,388.0	607.8	-646.7	887.5	0.00	0.00	0.00
4,600.0	15.14	313,22	4,484.5	625.6	-665.8	913.6	0.00	0.00	0.00
4,700.0	15.14	313.22	4,581.0	643.5	-684.8	939.7	0.00	0.00	0.00
4,800.0	15:14	313.22	4,677.6	661.4	-703.8	965.9	0.00	0.00	0.00
4,823.2	15.14	313.22	4,700.0	665.6	-708.3	971.9	0.00	0.00	0.00
,		313.22	4,700.0	000.0	-/00.3	3/ 1/3	0.00	0.00	0,00
W-3-9-16 TG1	Γ								
4.000-0	45.44	242.00	4 774.4	670.0	700.0	992.0	0.00	0.00	0.00
4,900.0	15.14	313.22	4,774.1	679.3	-722.9		0.00		
5,000.0	15.14	313.22	4,870.6	697.2	-741-9	1,018-1	0.00	0.00	0.00
5,100.0	15,14	313.22	4,967.2	715.1	-760.9	1,044.2	0.00	0.00	0.00



PayZone Directional Services, LLC.

Planning Report



Database: Company: Project:

Site:

EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT)

SECTION 3 T9S, R16E

Design #1

Well: Wellbore: Design:

W-3-9-16 Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W-3-9-16

W-3-9-16 @ 5645.0ft (Newfield Rig) W-3-9-16 @ 5645.0ft (Newfield Rig)

Minimum Curvature

nned Survey									
Measured Depth (ft)	inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	15.14	313,22	5,063.7	733.0	-780.0	1,070.3	0.00	0.00	0.00
5,300.0	15.14	313.22	5,160.2	750.8	-799.0	1,096.4	0.00	0.00	0.00
5,400.0	15.14	313.22	5,256.7	768.7	-818.0	1,122,5	0.00	0.00	0.00
5,500.0	15.14	313,22	5,353,3	786.6	-837,1	1,148.7	0.00	0.00	0.00
5,600.0	15.14	313,22	5,449.8	804.5	-856.1	1,174.8	0.00	0.00	0.00
5,700.0	15,14	313.22	5,546.3	822.4	-875.1	1,200.9	0.00	0.00	0.00
5,800.0	15 14	313.22	5,642.9	840,3	-894.2	1,227.0	0.00	0.00	0.00
5,900.0	15,14	313,22	5,739.4	858.1	-913.2	1,253.1	0.00	0.00	0.00
6,000.0	15.14	313.22	5,835.9	876.0	-932.2	1,279,2	0.00	0.00	0.00
6,100.0	15.14	313.22	5,932.5	893.9	-951:3	1,305.4	0.00	0.00	0.00
6,200.0	15.14	313.22	6,029.0	911.8	-970.3	1,331.5	0.00	0.00	0.00
6,300.0	15.14	313.22	6,125.5	929,7	-989.3	1,357.6	0.00	0.00	0.00
6,403.1	15.14	313.22	6,225.0	948.1	-1,008.9	1,384.5	0.00	0.00	0.00

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
W-3-9-16 TGT - plan hits target - Circle (radius 75.0)	0.00	0.00	4,700.0	665.6	-708.3	7,190,930,29	2,030,701.03	40° 3' 9.408 N	110° 6′ 20 449 V



Project: USGS Myton SW (UT) Site: SECTION 3 T9S, R16E

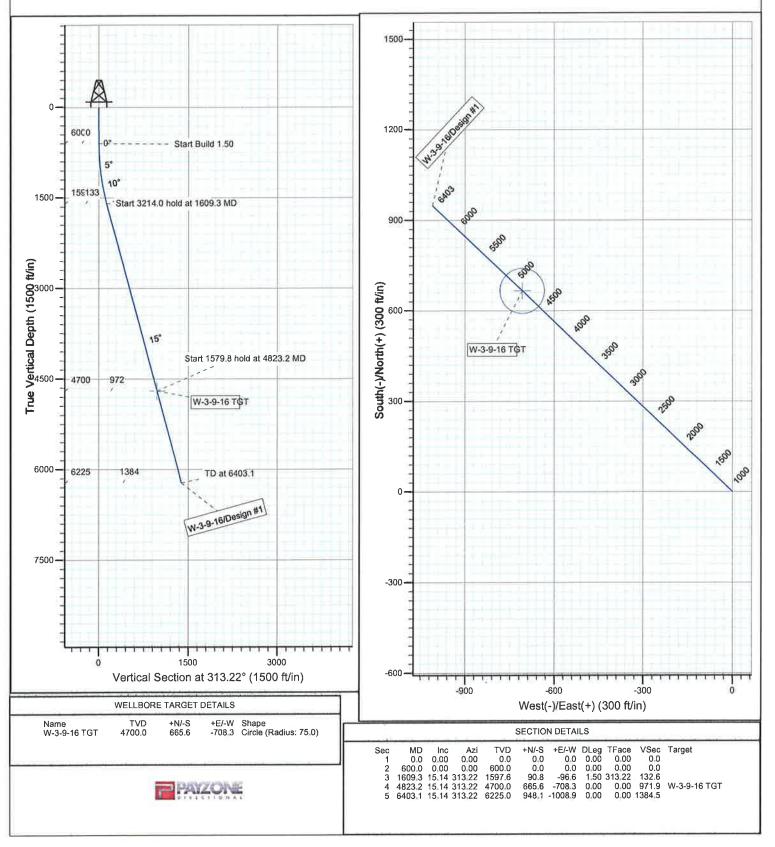
Well: W-3-9-16 Wellbore: Wellbore #1 Design: Design #1



Azimuths to True North Magnetic North: 11.39°

Magnetic Field Strength: 52315.2snT Dip Angle: 65.80° Date: 2010/12/18 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



NEWFIELD PRODUCTION COMPANY GMBU W-3-9-16 AT SURFACE: NW/NE SECTION 10, T9S, R16E DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU W-3-9-16 located in the NW 1/4 NE 1/4 Section 10, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction -10.0 miles \pm to it's junction with an existing dirt road to the southwest; proceed in a southwesterly direction -4.4 miles \pm to it's junction with the access road to the existing 2-10-9-16 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 2-10-9-16 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. <u>LOCATION OF EXISTING WELLS</u>

Refer to Exhibit "B".

4. <u>LOCATION OF EXISTING AND/OR PROPOSED FACILITIES</u>

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District Water Right: 43-10136

Maurice Harvey Pond Water Right: 47-1358

Neil Moon Pond

Water Right: 43-11787

Newfield Collector Well

Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy

District).

There will be no water well drilled at this site.

6. <u>SOURCE OF CONSTRUCTION MATERIALS</u>

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. <u>ANCILLARY FACILITIES</u>

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. PLANS FOR RESTORATION OF SURFACE:

a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. <u>SURFACE OWNERSHIP</u> – Bureau of Land Management.

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #11-053, 4/21/11. Paleontological Resource Survey prepared by, Wade E. Miller, 4/23/11. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 237' of buried water line to be granted for the proposed GMBU W-3-9-16.

It is proposed that the disturbed area will be 30' wide to allow for construction of the proposed buried 10" steel water injection line and a buried 3" poly water return line. The proposed buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

For a ROW plan of development, please refer to the Greater Monument Butte Green River Development SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

Surface Flow Line

Newfield requests 587' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

<u>Clearing and Grading</u>: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

<u>Installation:</u> The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

<u>Termination and Final Reclamation:</u> After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made

with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Details of the On-Site Inspection

The proposed GMBU W-3-9-16 was on-sited on 2/2/11. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), and Suzanne Grayson (Bureau of Land Management).

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU W-3-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU W-3-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:

Representative

Name: Tim Eaton

Address: Newfield Production Company

Route 3, Box 3630 Myton, UT 84052

Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #W-3-9-16, Section 10, Township 9S, Range 16E: Lease UTU-76813 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

4/29/11	
Date	Mandie Crozier
	Regulatory Specialist
	Newfield Production Company

2-M SYSTEM

Blowout Prevention Equipment Systems

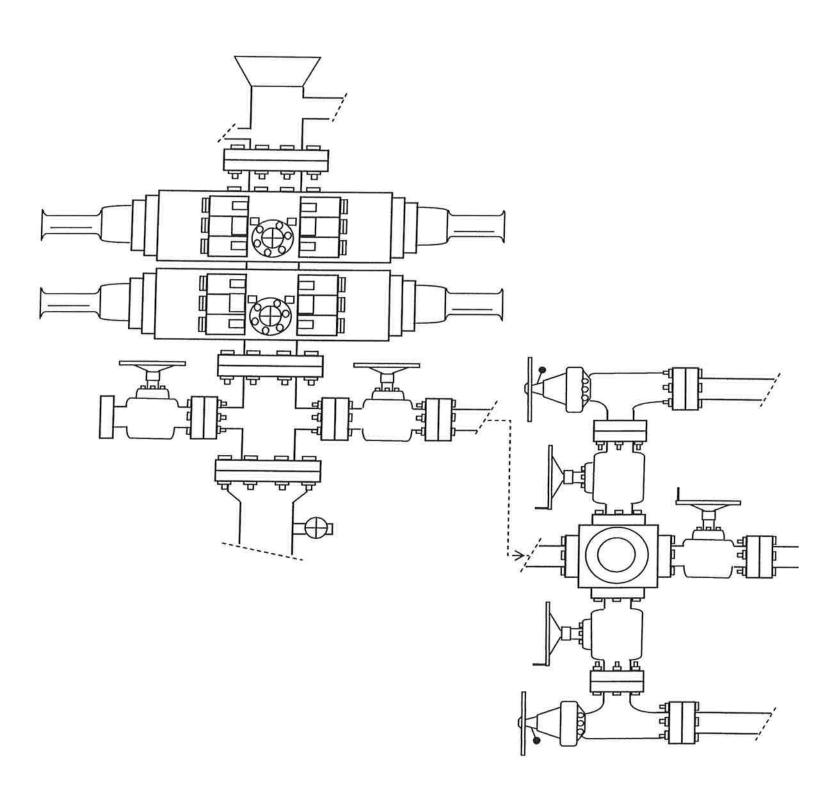
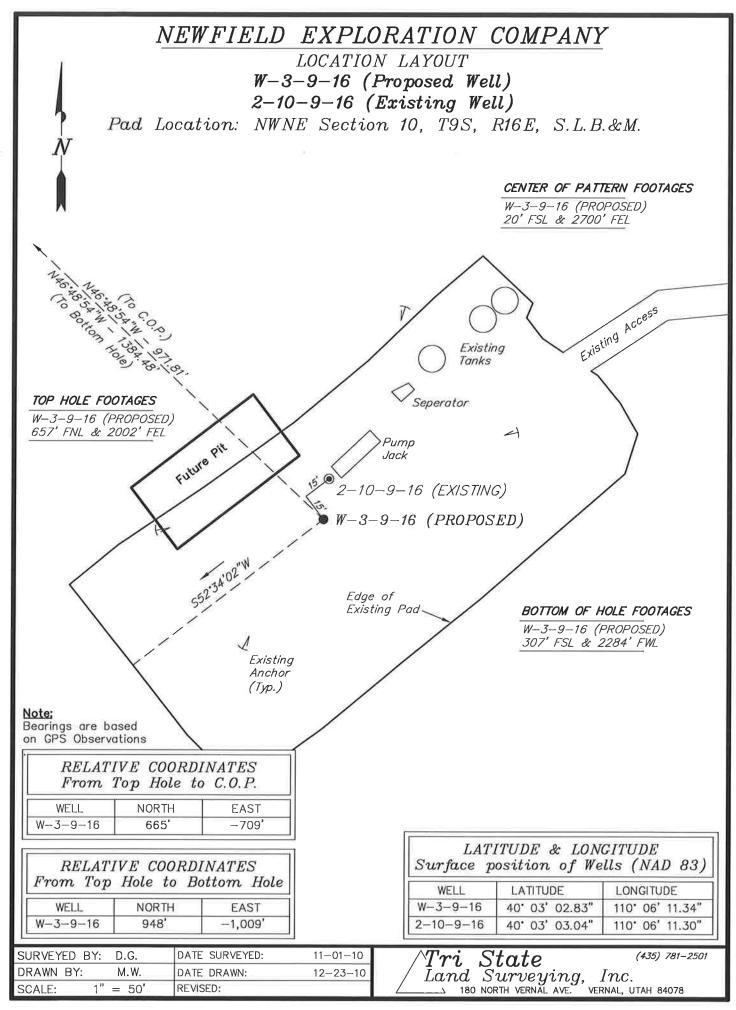
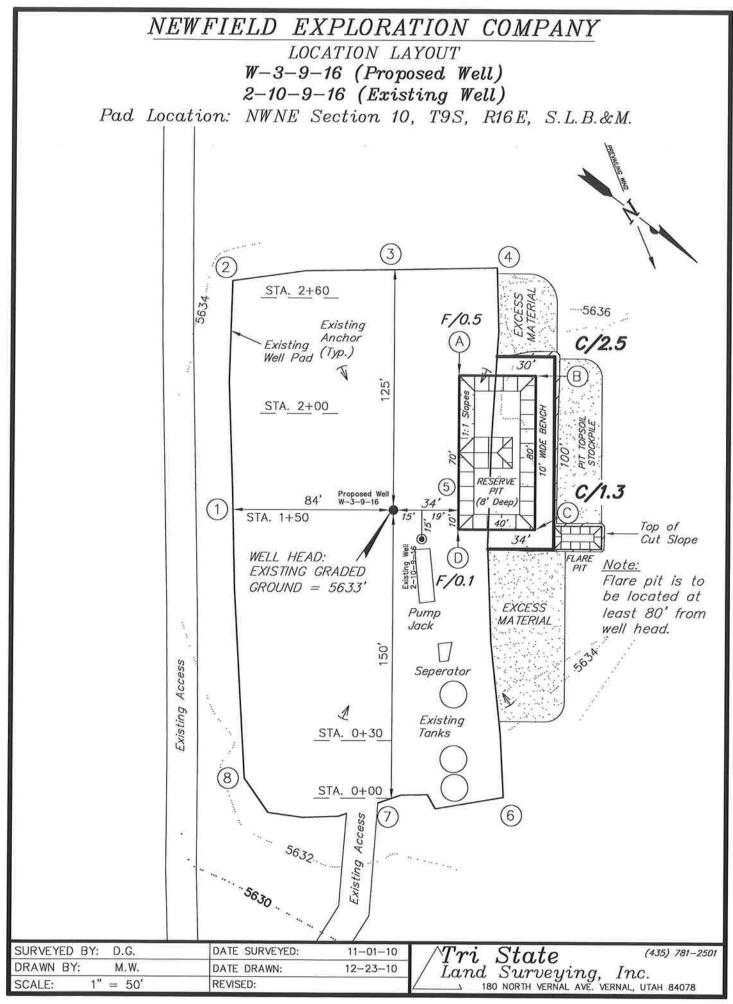


EXHIBIT C





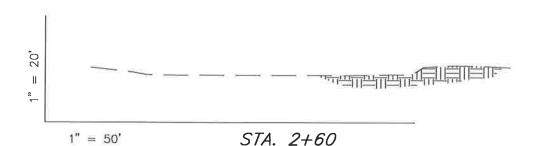


CROSS SECTIONS

W-3-9-16 (Proposed Well)

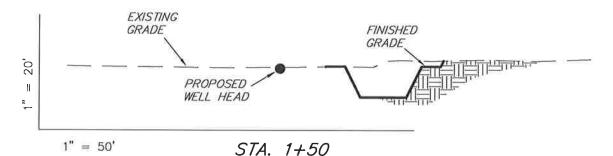
2-10-9-16 (Existing Well)

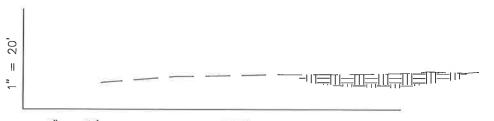
Pad Location: NWNE Section 10, T9S, R16E, S.L.B.&M.











1'' = 50' STA. 0+30

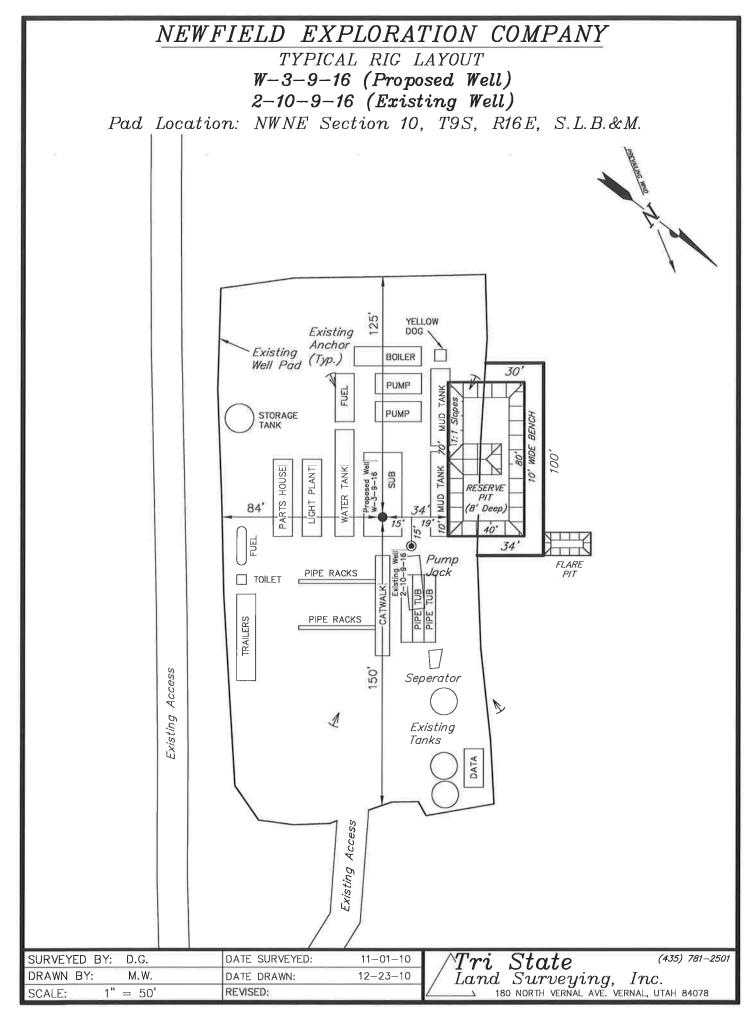
NOTE: UNLESS OTHERWISE NOTED CUT SLOPES ARE AT 1:1 FILL SLOPES ARE AT 1.5:1

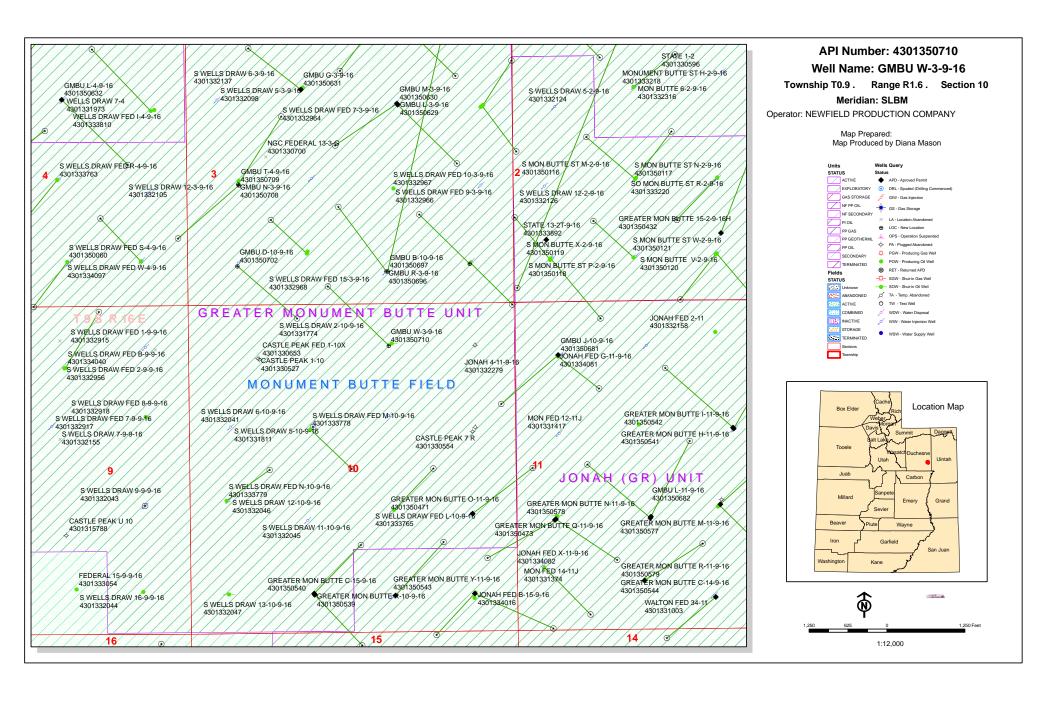
	(No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)								
ITEM		CUT	FILL	6" TOPSOIL	EXCESS				
PAD		50	20	Topsoil is not included	30				
PIT		640	0	in Pad Cut	640				
TOTAL	_S	690	20	120	670				

SURVEYED BY: D.G.	DATE SURVEYED:	11-01-10
DRAWN BY: M.W.	DATE DRAWN:	12-23-10
SCALE: $1'' = 50'$	REVISED:	

/Tri State (435) 781–2501 / Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078







VIA ELECTRONIC DELIVERY

May 11, 2011

State of Utah, Division of Oil, Gas and Mining ATTN: Diana Mason P.O. Box 145801 Salt Lake City, UT 84114-5801

RE:

Directional Drilling

GMBU W-3-9-16

Greater Monument Butte (Green River) Unit

Surface Hole:

T9S-R16E Section 10: NWNE (UTU-76813)

657' FNL 2002' FEL

At Target:

T9S-R16E Section 3: SESW (UTU-77338)

307' FSL 2284' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 4/29/11, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing preexiting roads and pipelines.

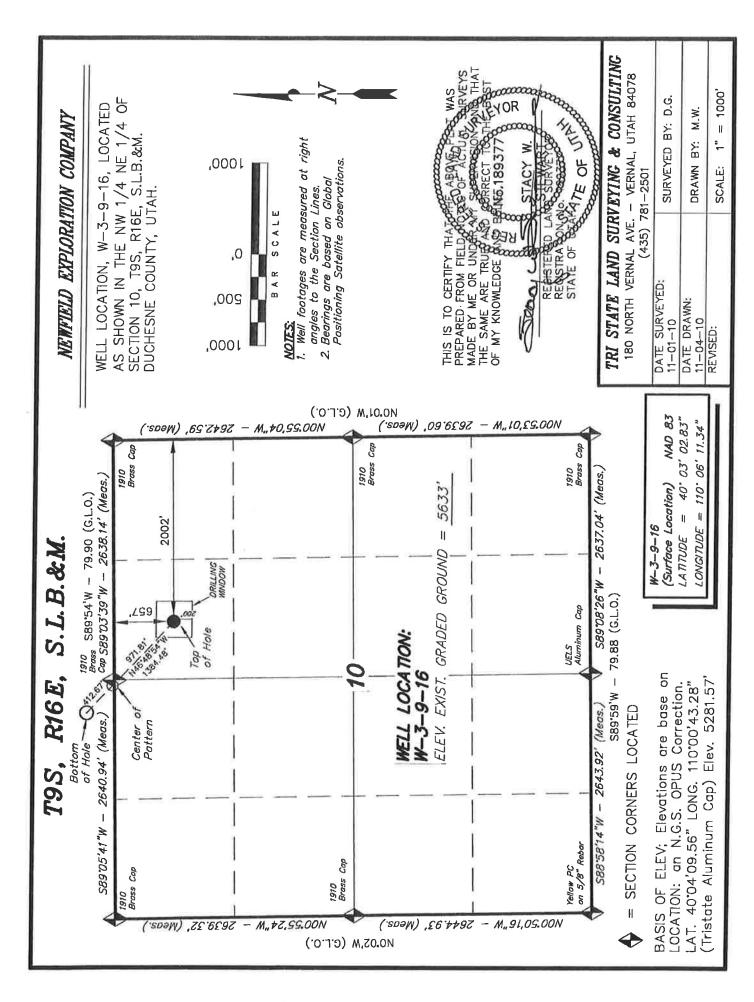
NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

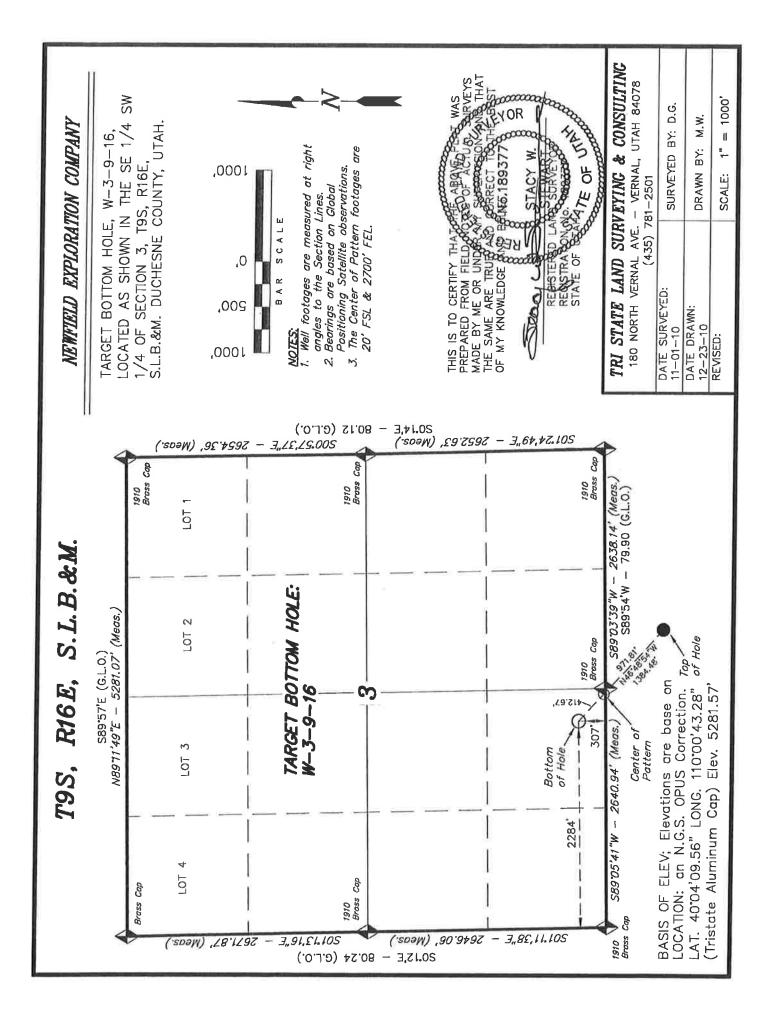
Sincerely,

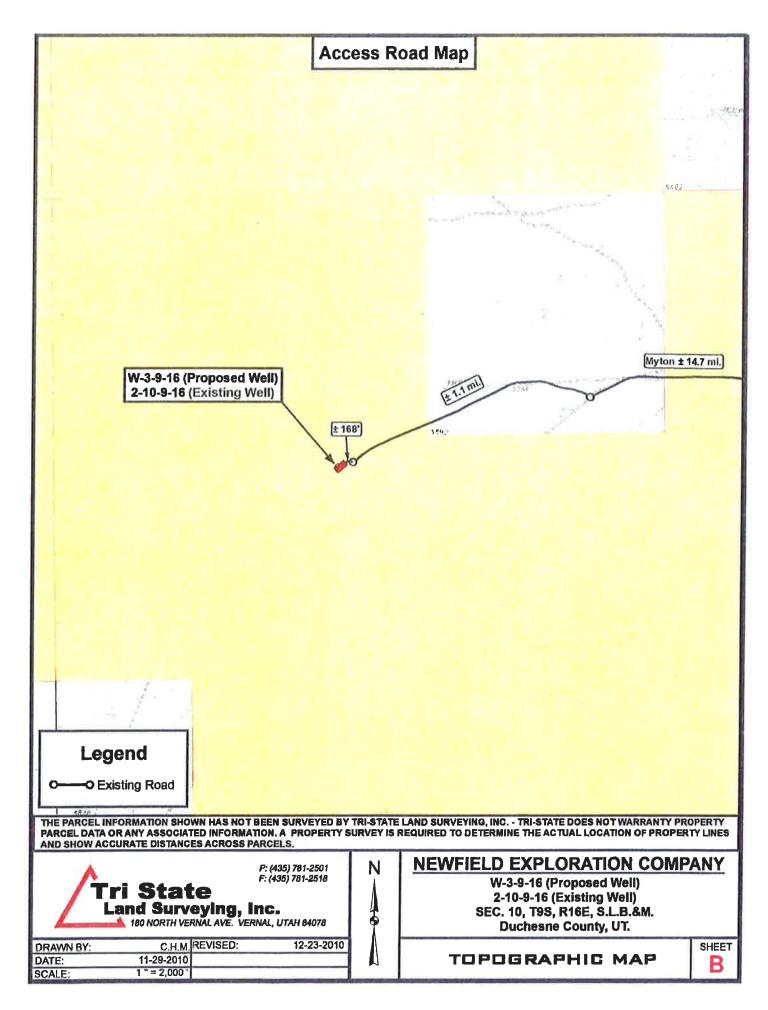
Newfield Production Company

Shane Gillespie Land Associate

Form 3160-3 (August 2007)	FORM APPROVED OMB No 1004-0137 Expires July 31, 2010						
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	5. Lease Serial No. UTU-76813						
APPLICATION FOR PERMIT TO	If Indian, Allotee or Tribe Name NA						
la. Type of work: DRILL REENTI	ER			7 If Unit or CA Agreement, Name and No. Greater Monument Butte			
Ib. Type of Well: Oil Well Gas Well Other	 ✓Si	ingle Zone 🔲 Multi	ple Zone	8. Lease Name and Well No. GMBU W-3-9-16			
Name of Operator Newfield Production Company				9 API Well No.			
3a. Address Route #3 Box 3630, Myton UT 84052	3b Phone No. (include area code) (435) 646-3721			10. Field and Pool, or Exploratory Monument Butte			
Location of Well (Report location clearly and in accordance with con	tion of Well (Report location clearly and in accordance with any State requirements.*)				11. Sec., T. R. M. or Blk.and Survey or Area		
At surface NW/NE 657' FNL 2002' FEL Sec. 10, T9S R16E (UTU-76813)				Sec. 10, T9S R16E			
At proposed prod. zone SE/SW 307' FSL 2284' FWL Se	c. 3, T9S R	16E (UTU-77338)					
14 Distance in miles and direction from nearest town or post office* Approximately 15.8 miles southwest of Myton, UT				12 County or Parish Duchesne		13. State UT	
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 307' f/lse, NA f/unit	16. No. of a 80.	neres in lease	17 Spacin	g Unit dedicated to this well 20 Acres			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 872'	19. Proposed Depth 20 BLM/BIA Bond No. on file WYB000493						
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 5633' GL	22. Approximate date work will start*			23. Estimated duration (7) days from SPUD to rig release			
	24. Attac	chments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be at	tached to the	is form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5 Operator certific	ation	ns unless covered by ar			
25. Signature	Name (Printed Typed) Mandie Crozier			Date			
Title Regulatory Specialist							
Approved by (Signature)	Name (Printed Typed)		Date				
Title	Office						
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equi	table title to those right	s in the sub	ect lease which would o	entitle the a	pplicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cri States any false, fictitious or fraudulent statements or representations as to	ime for any po o any makter w	erson knowingly and within its jurisdiction.	illfully to m	ake to any department of	ог адепсу с	of the United	
(Continued on page 2)				*(Inst	ructions	on page 2)	







United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

May 12, 2011

Memorandum

API#

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument

Butte Unit, Duchesne and Uintah Counties,

Utah.

WELL NAME

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

LOCATION

(Proposed PZ GREEN RIVER)

43-013-50699 GMBU U-7-9-16 Sec 17 T09S R16E 0546 FNL 0671 FWL BHL Sec 07 T09S R16E 0270 FSL 0178 FEL

43-013-50708 GMBU N-3-9-16 Sec 03 T09S R16E 1963 FSL 0856 FWL BHL Sec 03 T09S R16E 2259 FNL 1558 FWL

43-013-50709 GMBU T-4-9-16 Sec 03 T09S R16E 1948 FSL 0871 FWL BHL Sec 04 T09S R16E 1102 FSL 0119 FEL

43-013-50710 GMBU W-3-9-16 Sec 10 T09S R16E 0657 FNL 2002 FEL

43-013-50721 GMBU D-8-9-16 Sec 05 T09S R16E 0854 FSL 0074 FWL BHL Sec 08 T09S R16E 0312 FNL 1630 FWL

43-013-50722 GMBU Q-5-9-16 Sec 05 T09S R16E 0873 FSL 0063 FWL BHL Sec 05 T09S R16E 1558 FSL 1704 FWL

43-013-50723 GMBU G-7-9-16 Sec 07 T09S R16E 1989 FNL 0685 FWL BHL Sec 07 T09S R16E 0984 FNL 1740 FWL

43-013-50724 GMBU B-7-9-16 Sec 06 T09S R16E 0667 FSL 2065 FEL BHL Sec 07 T09S R16E 0235 FNL 0982 FEL

RECEIVED: May. 12, 2011

BHL Sec 03 T09S R16E 0307 FSL 2284 FWL

API#	WELL NAME	LOCATION	
(Proposed PZ	GREEN RIVER)		
43-013-50725	GMBU H-7-9-16 BHL	 T09S R16E 202 T09S R16E 109	
43-013-50726	GMBU L-7-9-16 BHL	T09S R16E 212 T09S R16E 248	
43-013-50727		 T09S R15E 181 T09S R16E 112	
43-013-50728	GMBU W-6-9-16 BHL	T09S R16E 059 T09S R16E 026	
43-013-50729		 T09S R16E 058 T09S R16E 019	
43-013-50731		 T09S R15E 200 T09S R16E 102	
43-013-50732			6 FNL 0689 FEL 5 FSL 0232 FWL
43-013-50733	GMBU S-6-9-16 BHL		3 FSL 2051 FEL 7 FSL 1126 FEL
43-013-50738			8 FSL 0704 FEL 5 FNL 0248 FWL
43-013-50740			5 FSL 0692 FEL 6 FSL 0057 FWL
43-013-50741	GMBU C-31-8-17 BHL		1 FSL 1936 FWL 7 FNL 2401 FEL
43-013-50742	GMBU D-31-8-17 BHL		2 FSL 1933 FWL 7 FNL 1136 FWL
43-013-50743	GMBU G-31-8-17 BHL		7 FNL 0557 FWL 7 FNL 1397 FWL
43-013-50744	GMBU D-2-9-16 BHL		2 FSL 2111 FWL 0 FNL 1063 FWL
43-013-50745	GMBU F-8-9-17 BHL		3 FNL 0669 FEL 5 FNL 0170 FWL
43-013-50746	GMBU N-7-9-17 BHL		0 FNL 1774 FWL 6 FSL 1497 FWL
43-013-50747	GMBU U-6-9-17 BHL		6 FNL 0516 FWL 3 FSL 0210 FEL

Page 3

API# WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

43-013-50748 GMBU V-31-8-17 Sec 06 T09S R17E 0674 FNL 1958 FEL BHL Sec 31 T08S R17E 0046 FSL 1139 FEL

43-013-50749 GMBU Y-6-9-17 Sec 12 T09S R16E 0194 FNL 0416 FEL BHL Sec 06 T09S R17E 0214 FSL 0292 FWL

43-013-50750 GMBU F-3-9-16 Sec 04 T09S R16E 0714 FNL 0558 FEL BHL Sec 03 T09S R16E 1586 FNL 0331 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard, o=Bureau of Land Management, o=US Date: 2011.05.12 11:18:24-06000

bcc: File - Greater Monument Butte Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:5-12-11

API Well Number: 43013507100000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/28/2011 **API NO. ASSIGNED:** 43013507100000

WELL NAME: GMBU W-3-9-16

PHONE NUMBER: 435 646-4825 **OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNE 10 090S 160E **Permit Tech Review:**

> **SURFACE:** 0657 FNL 2002 FEL **Engineering Review:**

> **BOTTOM:** 0307 FSL 2284 FWL Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.05075 LONGITUDE: -110.10259 UTM SURF EASTINGS: 576548.00 **NORTHINGS:** 4433566.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76813 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

 PLAT R649-2-3.

Unit: GMBU (GRRV) Bond: FEDERAL - WYB000493

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: Cause: 213-11 Water Permit: 437478

Effective Date: 11/30/2009 **RDCC Review:**

Siting: Suspends General Siting **Fee Surface Agreement**

Intent to Commingle ■ R649-3-11. Directional Drill

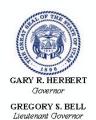
Commingling Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason 27 - Other - bhill

API Well No: 43013507100000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: GMBU W-3-9-16 API Well Number: 43013507100000 Lease Number: UTU-76813

Surface Owner: FEDERAL Approval Date: 5/12/2011

Issued to:

NEWFIELD PRODUCTION COMPANY, Rt 3 Box 3630, Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

API Well No: 43013507100000

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 2 9 2011

5.	Lease Serial No.
	UTU-76813

none No. (include area code) (435) 646-3721 requirements.*) (UTU-76813) TOS R16E (UTU-77338) No. of acres in lease	ole Zone	8. Lease Name and GMBU W-3-9- 9. API Well No. 43 013 10. Field and Pool, or Monument Bu	Well No. 16 50710 Exploratory
none No. (include area code) (435) 646-3721 requirements.*) (UTU-76813) TOS R16E (UTU-77338) No. of acres in lease		9. API Well No. 43 013 10. Field and Pool, or Monument Bu 11. Sec., T. R. M. or	50710 Exploratory
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(UTU-76813) 19S R16E (UTU-77338) No. of acres in lease			Blk.and Survey or Area
No. of acres in lease			R16E
			A STATE OF THE STA
		12. County or Parish Duchesne	13. State UT
80.00	17. Spacing	Unit dedicated to this 20 Acres	well
proposed location* I, drilling, completed, this lease, ft. 19. Proposed Depth 6,403' 20. BLM/BIA Bond No. on file WYB000493			
pproximate date work will star	1*	23. Estimated duration (7) days from SP	
Attachments		1110 N. J	
nd Gas Order No.1, must be att	tached to this	form:	
Item 20 above). the 5. Operator certification	ation		
6. Such other site s BLM.	specific infor	nation and/or plans a	s may be required by the
			Date (129/1)
Name (Printed Defry K	(enczl	ka	Date AUG 11 20
VERN			
or equitable title to those rights	s in the subject	ct lease which would e	ntitle the applicant to
any person knowingly and wi	illfully to mak	te to any department of	or agency of the United
ianci winni ns jurisuichon.			
	Attachments and Gas Order No.1, must be at 4. Bond to cover the street of the street	Attachments and Gas Order No.1, must be attached to this 4. Bond to cover the operations Item 20 above). 5. Operator certification 6. Such other site specific inform BLM. Name (Printed/Typed) Mandie Crozier Name (Printed/Typed) Office VERNAL FIEL or equitable title to those rights in the subject that the subject can presson knowingly and willfully to make	Attachments and Gas Order No.1, must be attached to this form: 4. Bond to cover the operations unless covered by an Item 20 above). 5. Operator certification 6. Such other site specific information and/or plans as BLM. Name (Printed/Typed) Mandie Crozier Name (Printed/Typed) Office VERNAL FIELD OFFICE or equitable title to those rights in the subject lease which would example the property of the propert

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

UDOGM

NOS 1/21/2011 115×50281A



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No: **Newfield Production Company**

GMBU W-3-9-16

43-013-50710

Location: Lease No:

Agreement:

NWNE Sec. 10, T9S R16E

UTU-76813

Greater Monument Butte Unit

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	_	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut vn opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.
		more than ninety (90) days.

Page 2 of 7 Well: GMBU W-3-9-16

8/9/2011

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.

Wildlife

- Construction and drilling is not allowed from May 1st June 15th to minimize impacts during Mountain plover nesting.
- Construction and drilling is not allowed from March 1st August 31st to minimize impacts during burrowing owl nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or
 qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the
 surveys, permission to proceed may or may not be recommended or granted by the BLM
 Authorized Officer.
- The reclamation seed mix will incorporate low growing grasses and forbs; and not crested wheatgrass since this negatively impacts mountain plover habitat.
- Hospital mufflers will be installed on new and existing pump jacks at the host well locations.
- Screening will be placed on stacks and on other openings of heater-treaters or fired vessels to prevent entry by migratory birds.

Air Quality

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Well site telemetry will be utilized as feasible for production operations.

Reclamation

 Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM. Appropriate erosion control and revegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

Seed Mix (Interim and Final Reclamation)

Common Name	Latin Name	Pure Live Seed (lbs/acre)	Seed Planting Depth
Squirreltail grass	Elymus elymoides	2.0	1/4 - 1/2"
Needle and thread grass	Hesperostipa comata	2.0	1/2"
Siberian Wheatgrass	Agropyron fragile	2.0	1/2"
Shadscale saltbush	Atriplex confertifolia	2.0	1/2"
Four-wing saltbush	Atriplex canescens	2.0	1/2"
Gardner's saltbush	Atriplex gardneri	2.0	1/2"
Blue flax (Lewis flax)	Linum lewisii	1.0	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

Page 4 of 7 Well: GMBU W-3-9-16 8/9/2011

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

 Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

Page 5 of 7 Well: GMBU W-3-9-16 8/9/2011

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: GMBU W-3-9-16 8/9/2011

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <u>www.ONRR.gov</u>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
 reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
 verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
 be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
 Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or abandoned,
 all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
 Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
 the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
 hole, and the current status of the surface restoration.

Spud BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 21 Submitted By Branden Arnold Phone Number 435-401-0223 Well Name/Number GMBU W-3-9-16 Qtr/Qtr NW/NE Section 10 Township 9S Range 16E Lease Serial Number UTU-76813 API Number 43-013-50710 Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string. Date/Time 9/8/11 9:00 AM \bowtie PM \bowtie Casing – Please report time casing run starts, not cementing times. Surface Casing **Intermediate Casing Production Casing** Liner Other Date/Time 9/8/11 3:00 AM \square PM \bowtie **BOPE** Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other Date/Time _____ AM PM Remarks _____

OPERATOR: NEWFIELD PRODUCTION COMPANY

ADDRESS: RT. 3 BOX 3630

MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	aa	T SC	WELL	OCATION	COUNTY	SPUD DATE	EFFECTIVE DATE
В	99999	17400	4301350710	GMBU W-3-9-16	NWNE	10,	98		DUCHESNE	9/12/2011	9/20/11
WELL 1 C	OMMENTS:										
	GRRV			BHL = Sec 3	SES	Su	•			4	
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QQ	SC WE	LL LOCAT	ION RG	COUNTY	SPUD DATE	EFFECTIVE DATE
В	99999	17400	4301350702	GMBU D-10-9-16	SWSW	3	98	16E	DUCHESNE	9/8/2011	9/20/11
	GRRV BHL = Sec 10 NENW -										
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	- QQ	SC	WELL	OCATION RG	COUNTY	SPUD DATE	EFFECTIVE
10700			······································								
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		<u> </u>									
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	90	sc	WELL L	OCATION RG	COUNTY	SPUD	EFFECTIVE
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		<u>. </u>				t i			<u> </u>		L
40710416	CODES (See Instructions on bac	at of forms							<u> </u>		

A - 1 new entity for new well (single well only)

B - / well to existing ontity (group or unit well)

C - 'rom one existing entity to another existing entity

D - well from one existing entity to a new entity

E - ther (explain in comments section)

RECEIVED SEP 1 5 2011

Production Clerk

Jentri Park

Signature

09/15/11

NOTE: Use COMMENT section to explain why each Action Code was selected.

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM A	PPROVEL
OMB No.	1004-013
Expires: J	uly 31,201

Lease	Serial	No.
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Do not use this form abandoned well. Use SUBMIT IN TRIPL 1. Type of Well	Form 3160-3 (APD) 1	II or to re-enter for such propos	als. 	USA UTU-7681 6. If Indian, Allotte 7. If Unit or CA/A GMBU		
abandoned well. Use SUBMIT IN TRIPL 1. Type of Well Oil Well Gas Well Other 2. Name of Operator NEWFIELD PRODUCTION COMPANY 3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,	Form 3160-3 (APD) 1	for such propos	als. 	7. If Unit or CA/A		
1. Type of Well Oil Well Gas Well Other 2. Name of Operator NEWFIELD PRODUCTION COMPANY 3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,	ICATE - Other Insti	ructions on pag	2	i	greement, Name and/or	
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2. Name of Operator NEWFIELD PRODUCTION COMPANY 3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,		Oil Well Gas Well Other				
Name of Operator NEWFIELD PRODUCTION COMPANY 3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,						
NEWFIELD PRODUCTION COMPANY 3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,				8. Well Name and		
3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,				GMBU W-3-9-16	5	
Myton, UT 84052 4. Location of Well (Footage, Sec., T., R.,	lah	Phone (include	are code)	9. API Well No.		
4. Location of Well (Footage, Sec., T., R.,	30.	are coaej	4301350710	or Exploratory Area		
, -	M., or Survey Description,	<u>435.646,3721</u>)		GREATER MB		
111	,, ,	•		11. County or Paris		
\ <i>O</i> Section ₹ T9S R16E				DUCHESNE, U	,	
12. CHECK APPRO	PRIATE BOX(ES) T	O INIDICATE	VATUREO			
	TIGHTE BOAGEST				HERDATA	
TYPE OF SUBMISSION		T	PE OF ACT	ION		
Notice of Intent	_	Deepen	Prod	uction (Start/Resume)	☐ Water Shut-Off	
Alte	r Casing	Fracture Treat	Reci	amation	■ Well Integrity	
- Sucsequent respect	ng Repair	New Construction		omplete	X Other	
Einel Abandanmant	nge Plans vert to Injector	Plug & Abandon Plug Back		porarily Abandon er Disposal	Spud Notice	
On 9/12/11 MIRU Ross #26. Spuc Set @ 313.37. On 9/13/11 cement 1.17ft3/sk yield. Returned 4 barre	t with 160 sks of class	"G" w/ 2% CaC	hole with air .2 + 0.25#/sl	mist. TIH W/ 7 Jt's 8 k Cello- Flake Mixed	3 5/8" J-55 24# csgn. @ 15.8ppg w/	
hereby certify that the foregoing is true and correct (<i>Printed/Typed</i>) Branden Arnold Signature		Title				
Bustal		Date 09/13/2011				
Т	THIS SPACE FOR F		TATE OF	ICE USE		
		Title				
Approved by				Date		

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

PECENED

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			8 5/8"	CASING SET AT	·	313.37			
LAST CASING	<u>14</u>	SET AT	6		OPERATO			Exploration	Company
DATUM TO CUT		NG	10	•			Monumer	nt Butte	
DATUM TO BRA				-		_		Ross # 26	
TD DRILLER			ER						
HOLE SIZE									
				•					
LOG OF CASING	STRING:								
PIECES	OD	ITEM - M	AKE - DESC	CRIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
1		wellhead						Α	1.42
7	8 5/8"	casing (she	oe jt 42.15)		24	J-55	STC	Α	303.05
1		guide shoe						Α	0.9
						. '			
				-					
-			•						
CASING INVENT	ORY BAL.		FEET	JTS	TOTAL LEN	NGTH OF S	STRING		305.37
TOTAL LENGTH	OF STRING	3	305.37	7	LESS CUT	OFF PIEC	E		2
LESS NON CSG	. ITEMS		2.32		PLUS DATUM TO T/CUT OFF CSG			10	
PLUS FULL JTS.	LEFT OUT		0		CASING SE	ET DEPTH			313.37
	TOTAL		303.05	7	٦ .				
TOTAL CSG. DE	L. (W/O TH	RDS)			COMPA	RE			
Ţ	IMING								
BEGIN RUN CSC	3.	Spud	11:00 AM	9/12/2011	GOOD CIR	C THRU JO	OB	Yes	
CSG. IN HOLE			4:00 AM	9/12/2011	Bbls CMT (CIRC TO S	URFACE		
BEGIN CIRC			10:25 AM	9/13/2011	RECIPROC	ATED PIP	l <u>No</u>		
REGIN PLIMP CA	/T		10:35 AM	9/13/2011					

10:47 AM

10:56 AM

9/13/2011

9/13/2011

BEGIN DSPL. CMT

PLUG DOWN

BUMPED PLUG TO 400

CEMENT USE	ΞD	CEMEN	COMPANY-	BJ					
STAGE	# SX	CEMEN	CEMENT TYPE & ADDITIVES						
1	160	Class "G"+2%CaCl Mixed@ 15.8ppg V	V/1.17 yield returned	4bbls to pit					
				Market and a constant of the c					
		111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-							
				water the second					
				11111 aug 144 aug 1					
		CHER PLACEMENT		SHOW MAKE & SPACING					
Middle of firs	t, top of sec	ond and third for a total of thre	<u>e</u>						
0014041045		TIVE Brandon America		DATE 0/42/2044					
COMPANY RI	EPKESENIA	TIVE Branden Arnold		DATE 9/13/2011					

Sundry Number: 22317 API Well Number: 43013507100000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76813
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: GMBU W-3-9-16		
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	9. API NUMBER: 43013507100000		
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT,	, 84052 435 646-482	PHONE NUMBER: 5 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0657 FNL 2002 FEL	COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNE Section:	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Holls Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
✓ DRILLING REPORT	L TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL ☐
Report Date: 10/21/2011	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
The above well w	completed operations. Clearly show yas placed on production or hours.	n 10/21/2011 at 13:00	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 17, 2012
NAME (PLEASE PRINT) Jennifer Peatross	PHONE NUME 435 646-4885	BER TITLE Production Technician	
SIGNATURE N/A		DATE 1/17/2012	

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

WELL	COMPLET	TON OR	RECOMPL	ETION REF	ORT AND	LOG
VVELL	COMPLE	ION OR	REGUNIEL	EIION KER	UNIANU	LUG

	W	ELL C	OMPL	ETIO	N OR F	RECOMPLE	TION	REPORT	AND L	OG				ase Seri 1-76813			
la. Type of to			il Well ew Well	G	as Well Vork Over	Dry Deepen	Other Plug B	Back Diff	. Resvr.,			-	6. If	Indian,	Allottee or T		
			ther:										7. Unit or CA Agreement Name and No. GMBU (GRRV)				
2. Name of NEWFIELI	Operator DEXPLOF	RATION	и сомі	PANY										ease Nan BU W-3	ne and Well -9-16	No.	
3. Address	1401 17TH S	T. SUITE	1000 DE	NVER, C	O 80202			3a. Phone 1 (435) 646		ıde are	a code,	1		FI Well 1 13-507			
4. Location	of Well (Re	port loc	cation cle	early and	l in accord	lance with Feder	al requi	rements)*				,,,	10. F	ield and	Pool or Exp	oloratory	
At surface	[₽] 657' FNI	L & 200)2' FEL	(NW/N	IE) SEC.	10, T9S, R16E	E (UTU	-76813)					11. 5		R., M., on B	lock and	
	2001	a	311			FEL (NW/NE) C. 3, T9S, R10			E (UTU-	76813	3)			County of		13. State	
At total de	<u> բա</u>	OL Q 2			D. Reache			16. Date Com	pleted 10	0/21/2	011				ns (DF, RKE		
09/12/201 18. Total De	1	6220		/29/20		ug Back T.D.:	MD 6	D&A		eady to		dge Plug		3' GL 5 MD	643' KB		
	TVI	D 6164	į.				TVD 6	131					,	TVD			
	GRD, SP	, COM	P. DEN	SITY,C	OMP. N	EUTRON,GR,	CALIPE	ER, CMT BO		W	as well as DST irection		и <u>С</u> И	。	Yes (Submit Yes (Submit Yes (Submit	report)	
23. Casing Hole Size	and Liner R Size/Gra		<i>Report a</i> Wt. (#/ft.)		s set in we	Bottom (MD	St	age Cementer		of Sks.		Slurry		Ceme	ent Top*	Amount Pulled	
12-1/4"	8-5/8" J-		24#	0	·P (*****)	315'	-	Depth	160 Cl		Cement (BBL)						
7-7/8"	5-1/2" J-		5.5#	0		6336'			230 PF					178'			
									450 50)/50 P	oz						
				+		1	-										
						1	-	·									
24. Tubing Size		Pot (MD)) I Bas	Iron Done	L (MD)	C:		ath Cat (MD)	Packer I	Donth (MD)	Size		Dantl	h Set (MD)	Packer Depth (MD)	
2-7/8"		Set (MD) 6210'		ker Dept 0 6112'	II (IVID)	Size	De	pth Set (MD)	racket i	Depui (1	(VID)	3120		Бера	i Set (MID)	1 acker Depth (WD)	
25. Produci	ng Intervals Formation			т	ор	Bottom	26.	Perforation Perforated In				ize	No. I	loles		Perf. Status	
A) Green I		.1		4249'	ор	6136'	424	19-6136'	itoi vai		.36"	12.0	60	10103		1 or . States	
B)																	
C) D)																	
27. Acid, F	racture, Trea	atment, (Cement S	Squeeze,	etc.										· · ·	RECEIVED.	
	Depth Inter	val	<u> </u>		440000	%- 00/40t-!-			Amount a						•	See See	
4249-6136) [']			-rac w/	1126907	#s 20/40 white	sand ir	n 1163 DDIS (or Lignin	iing 17	riluia	ın 4 Staç	jes.			FEB 1 3 2012	
															DIV.	of oil, gas a main	
28. Product Date First		l A Hours	Test		Oil	Gas	Water	Oil Gra	vity	Gas	8	Prod	uction N	fethod			
Produced	l est Date	Tested			BBL		BBL	Corr. A	-		vity				20' x 24' RH	IAC Pump	
10/27/11	11/2/11	24		-	39	38	107		_			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 H Rate		Oil BBL	Gas MCF	Water BBL	Gas/Oi Ratio	l		ell Statu RODU						
28a. Produc					L	1		1000	•.			- h		1 -41 - 1			
Date First Produced	Test Date	Hours Tested	Test Prod		Oil BBL		Water BBL	Oil Gra Corr. A		Gas Gra	s avity	Prod	uction N	dethod			
Choke Size	Гbg. Press. Flwg. SI	Csg. Press.	24 H Rate		Oil BBL	Gas MCF	Water BBL	Gas/Oi Ratio	l	We	ell Statu	ıs					

^{*(}See instructions and spaces for additional data on page 2)

28h Prod	uction - Inte	rval C									
Date First		Hours	Test	Oil	Gas	Water	Oil G	ravity	Gas	Production Method	
Produced		Tested	Production	BBL	MCF	BBL	Corr.	API	Gravity		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/C Ratio		Well Status		
28c. Produ	uction - Inte	rval D		1							
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gi Corr.		Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/C Ratio		Well Status	1	
9. Dispos	sition of Gas	S (Solid, u	sed for fuel, ve	ented, etc.	, 		<u> </u>				
SOLD AND	USED FOR F	FUEL									
0. Sumn	nary of Poro	us Zones	(Include Aqui	ifers):					31. Formation	on (Log) Markers	
	ng depth int					d intervals and a ving and shut-in			GEOLOGI	CAL MARKERS	
					_						Тор
Forn	nation	Тор	Bottom		De	scriptions, Cont	tents, etc.			Name	Meas. Depth
GREEN RIV	/ER	4249'	6136'						GARDEN GU GARDEN GU		3833' 4046'
									GARDEN GU POINT 3	LCH2	4163' 4435'
									X MRKR Y MRKR		4712' 4748'
									DOUGLAS CI BI-CARBONA		4875' 5125'
									B LIMESTON CASTLE PEA	K	5251' 5763'
									BASAL CARB	ONATE	0219
								- toward to			
32. Addit	ional remark	cs (include	e plugging pro	cedure):							·
						he appropriate b					
		_	s (1 full set request very set of the set of	•		☐ Geologic Repo ☐ Core Analysis		DST F	Report Drilling Daily	Directional Survey Activity	
										ecords (see attached instruct	ions)*
	-	_	ennifer Peat		Dimenton IS CC	mpiote and con			on Technician	MANAGEMENT CONTROL OF THE PROPERTY OF THE PROP	
S	ignature (Y	court	105			Date _	11/23/20	11		
						e it a crime for a matter within its			y and willfully to	make to any department or a	agency of the United States any
Continue	d on page 3))									(Form 3160-4, pag



NEWFIELD EXPLORATION

USGS Myton SW (UT) SECTION 10 T9S, R16E W-3-9-16

Wellbore #1

Design: Actual

Standard Survey Report

26 October, 2011





Survey Report



Company:

NEWFIELD EXPLORATION

Project:

USGS Myton SW (UT)

Site: Well: SECTION 10 T9S, R16E W-3-9-16

Wellbore:

Wellbore #1

Local Co-ordinate Reference:

Well W-3-9-16

TVD Reference:

W-3-9-16 @ 5643.0ft (NDSI SS#1)

EDM 2003.21 Single User Db

MD Reference:

W-3-9-16 @ 5643.0ft (NDSI SS#1)

North Reference:

Survey Calculation Method:

Minimum Curvature

Design: Actual Database:

Map System: Geo Datum:

Project

US State Plane 1983

North American Datum 1983

Map Zone:

Utah Central Zone

System Datum:

Mean Sea Level

Site

SECTION 10 T9S, R16E

Site Position: From:

Мар

Northing: Easting:

7,187,000.00 ft

Latitude:

40° 2' 30.244 N

2,032,800.00ft

Longitude:

110° 5' 54.250 W

Position Uncertainty:

0.0 ft

Slot Radius:

Grid Convergence:

0.90°

Well

W-3-9-16, SHL LAT: 40 03 02.83 LONG: -110 06 11.34

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Well Position +N/-S +E/-W

0.0 ft 0.0 ft Northing: Easting:

7,190,275.85 ft

11.39

Latitude: Longitude: 40° 3' 2.830 N

Position Uncertainty

0.0 ft

Wellhead Elevation:

12/18/2010

2,031,419.60 ft 5,643.0 ft

Ground Level:

110° 6′ 11.340 W 5,633.0 ft

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

52,315

Actual

Audit Notes:

Design

Version: 1.0 Phase:

ACTUAL

Tie On Depth:

0.0

65.80

Vertical Section:

Depth From (TVD) (ft)

IGRF2010

+N/-S

+E/-W

Direction

0.0

6,339.0 Survey #1 (Wellbore #1)

(ft) 0.0 (ft) 0.0

(°) 313.22

Survey Program From (ft)

347.0

10/26/2011

То (ft) Survey (Wellbore)

Tool Name

MWD

Description MWD - Standard

Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
(ft)	()	(°)	(ft)	(ft)	(ft)	(ft)	(/ looig	() 10010	(/ / / / / / / / / / / / / / / / / / /
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
347.0	0.18	268.30	347.0	0.0	-0.5	0.4	0.05	0.05	0.00
378.0	0.10	292.40	378.0	0.0	-0.6	0.4	0.32	-0.26	77.74
408.0	0.40	302.00	408.0	0.1	-0.7	0.6	1.01	1.00	32.00
439.0	1.30	310.00	439.0	0.3	-1.1	1.0	2.92	2.90	25.81
469.0	1.80	307.40	469.0	0.8	-1.7	1.8	1.68	1.67	-8.67
500.0	2.40	298.70	500.0	1.5	-2.7	3.0	2.19	1.94	-28.06
530.0	2.50	293.00	529.9	2.0	-3.8	4.2	0.88	0.33	-19.00
561.0	2.50	284.30	560.9	2.4	-5.1	5.4	1.22	0.00	-28.06
591.0	2.90	278.30	590.9	2.7	-6.5	6.6	1.63	1.33	-20.00
622.0	2.97	278.30	621.8	2.9	-8.1	7.9	0.23	0.23	0.00
653.0	3.50	280.42	652.8	3.2	-9.8	9.3	1.75	1.71	6.84
683.0	3.52	275.33	682.7	3.5	-11.6	10.8	1.04	0.07	-16.97



Survey Report



Company:

NEWFIELD EXPLORATION

Project:

USGS Myton SW (UT)

Site: Well: SECTION 10 T9S, R16E W-3-9-16

Well: Wellbore:

Wellbore #1

Design:

Wellbore # Actual Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well W-3-9-16

VOII VV-0-5-10

W-3-9-16 @ 5643.0ft (NDSI SS#1) W-3-9-16 @ 5643.0ft (NDSI SS#1)

True

Minimum Curvature

EDM 2003.21 Single User Db

				A 10 PA MAIN	er i Garage de St		学员 医乳洗涤剂		
Measured			Vertical	The state of the s		Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)		(代)	(°/100ft)	(°/100ft)	(°/100ft)
714.0	3.90	277.10	713.7	3.7	-13.6	12.4	1.28	1.23	5.71
744.0	4.00	274.00	743.6	3.9	-15.7	14.1	0.79	0.33	-10.33
775.0	4.30	276.50	774.5	4.1	-17.9	15.9	1.13	0.97	8.06
805.0	4.60	279.60	804.4	4.4	-17.9	17.8	1.28	1.00	10.33
836.0	5.00	281.10	835.3	4.9	-22.8	19.9	1.35	1.29	4.84
881.0	5.70	280.80	880.1	5.7	-26.9	23.5	1.56	1.56	-0.67
925.0	6.00	283.90	923.9	6.7	-31.2	27.3	0.99	0.68	7.05
969.0	6.40	277.70	967.6	7.5	-35.9	31.3	1.77	0.91	-14.09
1,013.0	6.80	279.10	1,011.3	8.3	-40.9	35.5	0.98	0.91	3.18
1,057.0	7.30	278.00	1,055.0	9.1	-46.3	39.9	1.18	1.14	-2.50
1,101.0	7.60	279.60	1,098.6	10.0	-51.9	44.6	0.83	0.68	3.64
1,145.0	7.60	279.10	1,142.2	10.9	-57.6	49.5	0.15	0.00	-1.14
1,189.0	7.70	282.00	1,185.9	12.0	-63.4	54.4	0.91	0.23	6.59
1,233.0	7.70	283.30	1,229.5	13.3	-69.1	59.5	0.40	0.00	2.95
1,277.0	8.30	286.50	1,273.0	14.8	-75.1	64.9	1.70	1.36	7.27
1,321.0	8.60	291.80	1,316.6	17.0	-81.2	70.8	1.90	86.0	12.05
1,365.0	9.00	295.50	1,360.0	19.7	-87.3	77.1	1.57	0.91	8.41
1,409.0	9.40	299.70	1,403.5	22.9	-93.5	83.9	1.78	0.91	9.55
1,453.0	9.80	302.90	1,446.9	26.7	-99.8	91.1	1.52	0.91	7.27
1,497.0	9.90	306.90	1,490.2	31.1	-106.0	98.5	1.57	0.23	9.09
1,541.0	10.10	312.40	1,533.5	35.9	-111.9	106.1	2.22	0.45	12.50
1,585.0	10.40	313.80	1,576.8	41.3	-117.6	113.9	0.89	0.68	3.18
1,629.0	10.90	315.40	1,620.1	47.0	-123.4	122.1	1.32	1.14	3.64
1,673.0	11.50	316.40	1,663.2	53.1	-129.3	130.6	1.43	1.36	2.27
1,717.0	11.60	318.20	1,706.3	59.6	-135.3	139.4	0.85	0.23	4.09
1,761.0	12.10	320.60	1,749.4	66.5	-141.1	148.4	1.60	1.14	5.45
1,805.0	12.50	319.60	1,792.4	73.7	-147.2	157.7	1.03	0.91	-2.27
1,849.0	12.80	317.80	1,835.3	80.9	-153.5	167.3	1.13	0.68	-4.09
1,893.0	13.10	316.20	1,878.2	88.1	-160.2	177.1	1.06	0.68	-3.64
1,937.0	13.10	314.80	1,921.1	95.2	-167.2	187.1	0.72	0.00	-3.18
1,981.0	13.10	316.30	1,963.9	102.3	-174.2	197.0	0.77	0.00	3.41
2,025.0	13.70	320.00	2,006.7	109.9	-181.0	207.2	2.38	1.36	8.41
2,069.0	14.00	324.00	2,049.4	118.2	-187.5	217.6	2.28	0.68	9.09
2,113.0	14.60	325.80	2,092.1	127.1	-193.7	228.2	1.70	1.36	4.09
2,157.0	15.10	323.90	2,134.6	136.3	-200.2	239.3	1.59	1.14	-4.32
2,201.0	15.80	324.20	2,177.0	145.8	-207.1	250.8	1.60	1.59	0.68
2,245.0	16.10	324.00	2,219.3	155.6	-214.2	262.7	0.69	0.68	-0.45
2,289.0	16.90	322.90	2,261.5	165.7	-221.6	275.0	1.95	1.82	-2.50
2,333.0	17.60	322.30	2,303.5	176.0	-229.6	287.8	1.64	1.59	-1.36
2,377.0	17.90	320.20	2,345.4	186.5	-238.0	301.1	1.61	0.68	-4.77
2,421.0	17.90	319.20	2,387.3	196.8	-246.7	314.6	0.70	0.00	-2.27
2,465.0	18.10	317.60	2,429.2	207.0	-255.7	328.1	1.21	0.45	-3.64
2,509.0	18.60	316.90	2,470.9	217.1	-265.1	341.9	1.24	1.14	-1.59
2,553.0	18.30	313.00	2,512.7	227.0	-275.0	355.8	2.89	-0.68	-8.86
2,597.0	17.90	310.90	2,554.5	236.1	-285.2	369.5	1.74	-0.91	-4.77
2,641.0	17.40	310.00	2,596.4	244.8	-295.3	382.8	1.29	-1.14	-2.05
2,685.0	17.50	309.90	2,638.4	253.2	-305.4	396.0	0.24	0.23	-0.23
2,729.0	17.45	311.14	2,680.4	261.8	-315.5	409.2	0.85	-0.11	2.82
2,773.0	17.60	313.50	2,722.3	270.7	-325.3	422.4	1.65	0.34	5.36
2,817.0	18.50	313.70	2,764.2	280.1	-335.1	436.1	2.05	2.05	0.45
2,861.0	19.30	314.70	2,805.8	290.1	-345.3	450.3	1.96	1.82	2.27
2,906.0	20.00	315.90	2,848.2	300.8	-356.0	465.4	1.80	1.56	2.67
2,950.0	20.10	316.40	2,889.5	311.7	-366.4	480.5	0.45	0.23	1.14
2,994.0	20.00	316.20	2,930.8	322.6	-376.9	495.6	0.28	-0.23	-0.45



Survey Report



Company:

NEWFIELD EXPLORATION

Project:

USGS Myton SW (UT)

Site: Well: SECTION 10 T9S, R16E

Wellbore: Design:

Wellbore #1

W-3-9-16

Actual

Local Co-ordinate Reference:

TVD Reference:

Database:

Well W-3-9-16

W-3-9-16 @ 5643.0ft (NDSI SS#1)

MD Reference: North Reference: W-3-9-16 @ 5643.0ft (NDSI SS#1)

Survey Calculation Method:

Minimum Curvature

EDM 2003.21 Single User Db

3,082 0 19,20 315,50 3,013,9 343,4 -997,2 524,8 0.48 0.45 0.48 0.45 0.48 3,126,0 19,50 315,00 3,055,4 333,8 -407,4 539,2 0.69 0.68 -0.22 3,130 17,50 312,00 3,080,0 363,9 -417,5 53,4 0.76 -0.70 -0.53 3,121,0 17,50 312,54 3,137,7 373,5 -427,5 567,3 4,11 -3.64 -5.35 3,125,0 17,70 312,54 3,137,7 373,5 -427,5 567,3 4,11 -3.64 -5.35 3,125,0 17,70 312,50 312,50 32,28 30,0 -445,8 606,5 1.17 0.68 312,0 3,141,0 3,263,8 400,0 -455,4 606,5 1.17 0.68 3,13 3,345,0 17,50 314,00 3,263,8 400,0 -455,4 606,5 1.17 0.68 3,15 3,345,0 17,50 313,0 3,305,7 409,3 -465,9 618,8 0.53 0.23 1.55 3,433,0 17,30 313,0 3,305,7 409,3 -465,9 618,8 0.53 0.23 1.55 3,433,0 17,30 313,0 3,367,7 418,5 -475,3 633,0 0.91 -0.68 -2.00 3,477,0 17,10 313,0 3,369,7 427,5 484,7 646,0 0.45 -0.45 -0.05 3,477,0 17,10 313,0 3,369,7 427,5 484,7 646,0 0.45 -0.45 -0.05 3,551,0 17,40 316,00 3,473,7 446,2 -0.05 1,2 8 685,2 0.73 -0.68 0.83 3,551,0 17,40 316,00 3,473,7 446,2 -0.05 1,2 8 685,2 0.73 -0.68 0.93 3,563,0 16,60 316,20 3,557,8 464,9 -520,9 697,9 1.14 -1.14 0.45 3,563,0 15,0 15,70 316,50 3,642,5 482,2 -537,4 721,8 1.37 -1.36 0.94 3,765,0 14,40 315,20 3,642,5 482,2 -537,4 721,8 1.37 -1.36 0.94 4,048 0.13,20 3,651,1 0.2 5,60 3,761,0 13,10 3,15,20 3,651,1 0.2 5,60 3,761,0 13,10 3,15,20 3,651,1 0.2 5,60 3,764,1 0.45 3,765,0 13,30 315,30 315,30 3,83,2 512,6 -567,6 764,7 121 -1.14 1.83 3,761,0 13,30 316,30 3,642,5 482,2 -537,4 721,8 1.37 1.36 0.94 4,040 13,40 13,15,15 3,777,5 565,4 566,3 764,4 0.48 0.89 0.89 0.99 0.13,80 316,30 3,643,5 425,4 542,2 533,0 17,1 1,2 0,5 5,4 569,3 764,4 0.48 0.89 0.13,30 316,30 3,642,5 482,2 537,4 721,8 1.37 1.36 0.94 4,040 13,40 13,16 15,10 3,660 519,8 578,8 590 3,764,4 0.48 0.89 0.99 0.01 3,30 316,30 3,16 30 3,813,2 512,6 -567,6 764,7 121 -1.14 1.14 1.14 1.14 1.14 1.14 1.14 1.	Measured			Vertical			Vertical	Dogleg	Build	Turn
3,082 0 19,20 315,50 3,013,9 343,4 -997,2 524,8 0.48 0.45 0.48 0.45 0.48 3,126,0 19,50 315,00 3,055,4 333,8 -407,4 539,2 0.69 0.68 -0.22 3,130 17,50 312,00 3,080,0 363,9 -417,5 53,4 0.76 -0.70 -0.53 3,121,0 17,50 312,54 3,137,7 373,5 -427,5 567,3 4,11 -3.64 -5.35 3,125,0 17,70 312,54 3,137,7 373,5 -427,5 567,3 4,11 -3.64 -5.35 3,125,0 17,70 312,50 312,50 32,28 30,0 -445,8 606,5 1.17 0.68 312,0 3,141,0 3,263,8 400,0 -455,4 606,5 1.17 0.68 3,13 3,345,0 17,50 314,00 3,263,8 400,0 -455,4 606,5 1.17 0.68 3,15 3,345,0 17,50 313,0 3,305,7 409,3 -465,9 618,8 0.53 0.23 1.55 3,433,0 17,30 313,0 3,305,7 409,3 -465,9 618,8 0.53 0.23 1.55 3,433,0 17,30 313,0 3,367,7 418,5 -475,3 633,0 0.91 -0.68 -2.00 3,477,0 17,10 313,0 3,369,7 427,5 484,7 646,0 0.45 -0.45 -0.05 3,477,0 17,10 313,0 3,369,7 427,5 484,7 646,0 0.45 -0.45 -0.05 3,551,0 17,40 316,00 3,473,7 446,2 -0.05 1,2 8 685,2 0.73 -0.68 0.83 3,551,0 17,40 316,00 3,473,7 446,2 -0.05 1,2 8 685,2 0.73 -0.68 0.93 3,563,0 16,60 316,20 3,557,8 464,9 -520,9 697,9 1.14 -1.14 0.45 3,563,0 15,0 15,70 316,50 3,642,5 482,2 -537,4 721,8 1.37 -1.36 0.94 3,765,0 14,40 315,20 3,642,5 482,2 -537,4 721,8 1.37 -1.36 0.94 4,048 0.13,20 3,651,1 0.2 5,60 3,761,0 13,10 3,15,20 3,651,1 0.2 5,60 3,761,0 13,10 3,15,20 3,651,1 0.2 5,60 3,764,1 0.45 3,765,0 13,30 315,30 315,30 3,83,2 512,6 -567,6 764,7 121 -1.14 1.83 3,761,0 13,30 316,30 3,642,5 482,2 -537,4 721,8 1.37 1.36 0.94 4,040 13,40 13,15,15 3,777,5 565,4 566,3 764,4 0.48 0.89 0.89 0.99 0.13,80 316,30 3,643,5 425,4 542,2 533,0 17,1 1,2 0,5 5,4 569,3 764,4 0.48 0.89 0.13,30 316,30 3,642,5 482,2 537,4 721,8 1.37 1.36 0.94 4,040 13,40 13,16 15,10 3,660 519,8 578,8 590 3,764,4 0.48 0.89 0.99 0.01 3,30 316,30 3,16 30 3,813,2 512,6 -567,6 764,7 121 -1.14 1.14 1.14 1.14 1.14 1.14 1.14 1.										
3,128.0	3,038.0	19.00	315.30	2,972.3	333.1	-387.1	510.2	2.37	-2.27	-2.05
3,126.0	3,082.0	19.20	315.50	3,013.9	343.4	-397.2	524.6	0.48	0.45	0.45
3 189 0 19 20 31500 3 086 0 353 9 417 5 553 4 0.76 -0.70 -0.53 3 257 0 17 10 3118 0 3.177 373 5 427 5 597 3 401 -384 -384 3 3.257 0 17 10 3118 0 3.179 7 382 3 -437 2 580 4 1.27 -1.14 1.33 3.30 1 17.20 312 80 3.2218 391 0 448 8 594 4 0.58 0.23 133 3.30 1 17.50 314 00 3.263 8 400.0 456 4 606 5 1.17 0.68 3.15 3.385 0 17.50 314 00 3.263 8 400.0 456 4 606 5 1.17 0.68 3.15 3.385 0 17.50 314 00 3.263 8 400.0 456 4 606 5 1.17 0.68 3.15 3.385 0 17.50 314 00 3.263 8 400.0 456 4 606 5 1.17 0.68 3.15 3.385 0 17.50 314 00 3.363 7 409 3 485 9 618 8 0.53 0.23 1.55 3.343 0 17.30 313 92 3.347 7 418 5 47.53 633 0 0.91 -0.68 -2.00 3.477 0 17.10 313 90 3.587 7 427 5 484 7 646 0 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.						-407.4		0.69	0.68	-0.23
3.213.0 17.60 312.64 3.137.7 373.5 -427.5 567.3 4.01 -3.64 -5.38 3.257.0 17.10 311.80 31.79.7 382.3 -437.2 560.4 1.27 3.301.0 17.20 312.60 3.221.8 310 -446.8 593.4 0.58 0.23 1.83 3.345.0 17.50 314.00 3.263.8 40.00 -456.4 606.5 1.17 0.68 3.389.0 17.60 314.70 3.305.7 409.3 -465.9 619.8 0.53 0.23 1.53 3.433.0 17.30 313.82 3.47.7 418.5 -475.3 633.0 0.91 0.23 1.53 3.477.0 17.10 313.80 3.369.7 427.5 -464.7 646.0 0.45 0.45 0.46 0.63 3.527.10 17.40 313.80 3.473.7 448.5 -494.0 693.0 0.45 0.45 0.46 0.63 3.565.0 17.40 316.80 3.475.7 445.7 -494.0 693.0 1.28 0.88 0.23 3.663.0 17.10 316.40 3.515.7 455.7 -512.1 885.2 0.73 0.08 0.93 3.663.0 15.70 316.50 3.600.1 473.7 -529.3 710.1 2.06 -2.05 0.64 3.3651.0 14.40 315.20 3.681.1 490.2 -545.2 733.0 1.71 1.59 -2.55 3.823.0 14.01 315.15 3.727.7 407.9 -552.8 743.8 0.98 0.89 0.89 3.823.0 13.80 315.10 3.727.7 407.9 -552.8 743.8 0.98 0.89 0.89 3.823.0 13.80 315.10 3.727.5 407.9 -562.2 733.0 1.71 1.59 -2.54 3.991.0 13.40 315.00 3.898.9 527.0 -562.0 755.0 0.43 0.23 1.54 3.991.0 13.40 315.00 3.898.9 527.0 -562.0 755.0 0.43 0.23 1.54 4.049.0 13.40 315.20 3.894.7 554.8 -560.3 754.4 0.48 0.48 0.04 4.091.0 13.40 315.50 3.898.9 527.0 -562.0 755.0 0.68 0.89 0.49 4.093.0 13.90 315.80 3.898.9 527.0 -562.0 765.0 0.68 0.89 4.093.0 13.90 315.80 3.898.9 527.0 -562.0 765.0 0.88 0.89 0.23 4.094.0 13.40 315.50 4.468.9 557.6 567.6 767.4 71.2 1.1 1.4 1.88 4.905.0 13.40 315.50 4.468.9 557.6 567.6 764.7 1.2 1.1 1.4 1.88 4.905.0 13.40 315.50 4.468.9 557.6 567.6 764.7 1.2 1.1 1.4 1.88 4.905.0 13.40 315.50 4.468.9 557.6 567.6 764.7 1.2 1.1 1.4 1.88 4.905.0 13.40 315.50 4.468.9 557.6 569.3 765.0 0.88 0.88 0.02 4.093.0 13.90 315.80 315.80 4.907.7 559.6 4.909.8 99.0 795.1 0.31 0.23 0.99 4.093.0 13.90 315.80 4.698.7 557.6 569.3 569.0 765.1 0.31 0.23 0.99 4.093.0 13.40 315.50 4.688.9 575.0 588.9 90.5 50.2 0.20 0.88 0.88 4.005.0 14.60 315.50 4.688.9 575.8 587.9 588.9 90.5 50.2 0.23 1.51 4.489.0 14.20 315.50 4.488.9 575.6 589.5 589.0 795.1 0.31 0.23 0.99 4.783.0 14.20 315.50 4.688.9 575.8 575.8 576.9 599.9 599.8 0.000	2 160 0	10.20	215.00		262.0	417.5	552 A	0.76	.0.70	-0.03
3,257 0 17 10 31180 31797 323 -4372 580.4 1.27 1.14 1.191 3,301 0 17 20 312 00 312 00 3.221 8 391 0 -46.8 593.4 0.86 0.23 1.86 3,345 0 17 50 314.00 3,221 8 400 0 .456 4 606.5 1.17 0.68 3.18 3,389 0 17 60 314.70 3,305.7 409 3 .465 9 619 8 0.53 0.23 1.58 3,433 0 17 30 313 82 3,347.7 418.5 .475 3 633 0 0.91 0.68 2.20 3,477 0 17 10 313 80 3,389 7 427.5 489 7 646 0 0.45 0.045 0.045 3,521 0 17 40 310 80 3,437 7 446 2 .501 672.2 0.95 0.00 3.18 3,565 0 17 40 310 80 3,473 7 446 2 .501 672.2 0.95 0.00 3.18 3,689 0 17 10 318 0 3,567 9 464 9 .520 9 697 9 1.14 1 .14 0.44 3,685 0 15 15 0 316.30 3,567 9 464 9 .520 9 697 9 1.14 1 .14 0.44 3,785 0 14 40 315 30 3,685 1 480 2 .552 8 .743 8 1.37 1.136 0.44 3,785 0 14 40 315 30 3,685 1 480 2 .552 8 .743 8 0.89 0.89 0.89 3,873 0 13,80 315 10 3,770 5 505 4 .660 3 .754 6 0.48 0.48 0.48 0.48 0.48 0.48 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49										
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3,433.0	3,345.0	17.50	314.00	3,263.8	400.0	-456.4	606.5	1.17	0.68	3.10
3,477.0		17.60	314.70	3,305.7						1.59
3,5210 17.40 315.40 3,4317 496.7 -494.0 659.0 1.28 0.88 3.64 3,585.0 17.40 316.80 3,473.7 446.2 -503.1 672.2 0.95 0.00 3.18 3.693.0 17.10 316.40 3,515.7 455.7 -512.1 685.2 0.73 -0.68 0.95 3.693.0 16.60 316.20 3,557.9 464.9 -520.9 697.9 1.1.14 -1.14 -0.44 3.697.0 15.70 316.50 3,600.1 473.7 -529.3 710.1 2.05 -2.05 0.68 3.741.0 15.10 316.30 3,642.5 482.2 -537.4 721.8 1.37 -1.36 -0.44 3.785.0 14.40 315.20 3.685.1 490.2 -545.2 733.0 17.11 -1.59 -2.55 3.829.0 14.01 315.15 3.727.7 497.9 -552.8 743.8 0.89 -0.89 -0.89 -0.11 3.873.0 13.80 315.10 3.770.5 505.4 -550.3 754.4 0.48 -0.48 -0.48 3.991.0 13.40 315.00 3.885.1 512.6 -567.6 764.7 1.21 -1.14 -1.44 3.991.0 13.40 315.00 3.885.0 519.8 -574.8 774.8 0.43 0.23 1.54 4.005.0 13.30 315.80 3.898.9 527.0 -582.0 785.0 0.48 -0.23 1.55 4.137 0.13.30 315.80 3.898.9 527.0 -582.0 785.0 0.48 -0.23 1.55 4.137 0.13.30 315.80 3.898.9 527.0 -582.0 785.0 1.28 1.20 1.14 1.55 4.137 0.14.20 315.80 4.027.1 549.6 -603.5 816.2 0.68 0.68 0.02 4.225.0 14.60 315.00 315.80 4.027.1 549.6 -603.5 816.2 0.68 0.68 0.02 4.225.0 14.60 315.00 4.125.2 557.6 -610.9 827.0 0.68 0.68 0.02 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 531.1 0.28 0.03 1.34 0.03 1.55 0.04 1.54 9.5 557.6 -610.9 827.0 0.68 0.68 0.02 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 531.1 0.28 0.03 1.34 0.00 315.80 4.027.1 549.6 -603.5 812.2 0.68 0.68 0.02 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 633.1 0.28 0.23 0.61 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 633.1 0.28 0.23 0.61 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 633.1 0.28 0.23 0.01 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 633.1 0.28 0.23 0.01 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 633.1 0.28 0.23 0.01 4.225.0 14.60 316.50 4.154.9 573.7 565.5 611.5 633.1 0.28 0.23 0.03 1.34 0.00 1.33 0.00 4.538.6 644.0 694.1 946.8 2.89 2.7 0.36 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3,433.0	17.30	313.82	3,347.7	418.5					
3,565.0 17.40 316.80 3,473.7 446.2 -503.1 672.2 0.95 0.00 3.18 3,690.0 17.10 316.40 3,515.7 455.7 -512.1 685.2 0.73 -0.68 0.09 3,653.0 16.60 316.20 3,557.9 464.9 -520.9 697.9 1.14 -1.14 -0.44 3,697.0 15.70 316.50 3,600.1 473.7 -529.3 710.1 2.05 -2.05 0.68 3,741.0 15.10 316.30 3,642.5 482.2 -537.4 721.8 1.37 -1.38 -0.44 3,785.0 14.40 315.20 3,685.1 490.2 -545.2 733.0 17.71 -1.59 -2.55 3,829.0 14.01 315.15 3,727.7 497.9 -552.8 743.8 0.89 -0.89 -0.89 3,873.0 13.60 315.10 3,770.5 505.4 -560.3 754.4 0.48 -0.48 -0.13 3,971.0 13.30 314.30 3,813.2 512.6 -567.6 764.7 1.21 -1.14 -1.83 3,981.0 13.40 315.00 3,880.9 527.0 -562.0 785.0 0.48 -0.23 1.83 4,005.0 13.30 316.80 3,898.9 527.0 -562.0 785.0 0.48 -0.23 1.83 4,049.0 13.40 315.00 3,984.4 541.8 -596.2 805.5 1.20 1.14 1.55 4,137.0 14.20 316.80 4,027.1 549.6 -803.5 816.2 0.68 0.68 0.22 4,181.0 14.50 316.80 4,027.1 549.6 -803.5 816.2 0.68 0.68 0.62 4,225.0 14.60 317.10 4,112.3 555.7 -618.5 838.1 0.28 0.23 0.68 4,240.0 14.60 315.00 315.50 3,984.4 541.8 -596.2 805.5 1.20 1.14 1.55 4,337.0 14.20 316.80 4,027.1 549.6 -803.5 816.2 0.68 0.68 0.68 0.22 4,181.0 14.50 316.80 4,027.1 549.6 -803.5 816.2 0.68 0.68 0.68 0.22 4,269.0 14.60 317.10 4,112.3 555.7 -618.5 838.1 0.28 0.23 0.68 4,240.0 14.00 315.50 4,454.9 573.7 -632.7 880.2 0.68 0.68 0.68 0.22 4,489.0 14.00 315.50 4,454.9 573.7 -633.7 860.2 0.46 -0.23 1.51 4,489.0 14.20 316.50 4,368.1 612.8 685.9 90.7 0.36 0.23 0.21 4,489.0 14.20 316.50 4,454.9 573.7 -633.7 800.2 0.46 -0.23 0.54 4,499.0 14.20 316.50 4,454.9 573.7 -633.7 800.2 0.46 -0.23 0.54 4,469.0 14.20 316.50 4,454.9 573.7 -633.7 800.2 0.46 -0.23 0.23 0.64 4,533.0 14.00 315.50 4,454.9 573.7 -633.7 800.2 0.46 -0.23 0.23 0.44 4,489.0 14.20 316.50 4,454.9 573.7 -633.7 800.2 0.46 0.23 0.23 0.44 4,489.0 14.20 316.50 4,454.5 66.6 66.9 67.7 -72.2 0.49 0.23 0.23 0.00 4,660.0 15.30 316.00 4,535.1 666.0 669.8 717.4 981.5 0.33 0.23 0.23 0.00 4,660.0 15.30 316.00 4,585.1 666.9 773.2 1.004.7 0.74 0.68 1.11 4,999.0 14.90 316.50 4,456.5 666.9 775.8 0.40 3.9 9.9 9.9 0.9 0.9 0.9 0.9 0.9 0.	3,477.0	17.10	313.80	3,389.7	427.5	-484.7	646.0	0.45	-0.45	-0.05
3,609,0 17,10 316,40 3,515,7 455,7 -512,1 685,2 0.73 -0.68 -0.99 3,653,0 16,60 316,20 3,557,9 464,9 -520,9 697,9 1.14 -1.14 -0.44 3,697,0 15,70 316,50 3,600,1 473,7 -529,3 710,1 2.05 -2.05 0.68 3,741,0 15,10 316,30 3,642,5 482,2 -537,4 721,8 1.37 -1.36 -0.44 3,765,0 14,40 315,20 3,685,1 490,2 -545,2 733,0 17,1 -1.59 -2.55 3,829,0 14,01 315,15 3,727,7 497,9 -552,8 743,8 0.89 -0.89 -0.89 3,873,0 13,80 315,10 3,770,5 505,4 -560,3 754,4 0.48 -0.48 -0.48 3,973,0 13,80 315,10 3,770,5 505,4 -560,3 754,4 0.48 -0.48 -0.41 3,991,0 13,40 315,00 3,885,0 519,8 -574,8 774,8 0.43 0.23 1.51 4,005,0 13,30 316,30 3,889,9 527,0 -785,0 0.48 -0.23 1.81 4,049,0 13,40 316,00 3,866,0 519,8 -574,8 774,8 0.43 0.23 1.81 4,049,0 13,40 316,00 3,894,4 541,8 -596,2 805,5 1.20 1.14 1.54 4,137,0 14,20 316,80 4,027,1 549,6 -603,5 816,2 0.68 0.68 0.64 4,137,0 14,20 316,80 4,027,1 549,6 -603,5 816,2 0.68 0.68 0.64 4,225,0 14,60 316,50 4,154,9 573,7 682,6 1 849,1 0.34 0.00 1.34 4,367,0 14,60 316,50 4,154,9 573,7 682,6 1 849,1 0.34 0.00 1.34 4,367,0 14,20 316,80 4,097,1 569,7 560,0 881,9 0.04 4,255,0 14,60 316,50 4,154,9 573,7 682,6 1 849,1 0.34 0.00 -1.34 4,367,0 14,20 316,50 4,197,5 581,7 633,7 860,2 0.46 0.22 1.54 4,367,0 14,20 315,50 4,194,9 573,7 682,6 1 849,1 0.34 0.00 -1.34 4,367,0 14,20 315,50 4,240,1 589,5 6-61,4 871,1 0.76 0.68 0.64 4,255,0 14,60 315,50 4,384,1 612,8 665,9 903,5 0.11 0.00 0.4 4,357,0 14,20 315,50 4,404,0 589,5 6-61,4 871,1 0.76 0.68 0.34 4,401,0 14,30 315,50 4,384,1 612,8 665,9 903,5 0.11 0.00 0.4 4,533,0 14,00 315,50 4,354,6 665,0 665,5 882,7 0.36 0.23 0.23 0.04 4,250,0 14,20 315,50 4,404,0 685,2 675,8 -725,9 989,6 0.86 0.04 0,455,0 14,20 315,50 4,404,0 685,2 675,8 -725,9 989,6 0.86 0.04 0,23 1.34 4,401,0 14,20 315,50 4,404,0 685,2 675,8 -725,9 989,6 0.86 0.04 0,23 1.34 0,401,0 14,20 315,50 4,404,0 685,2 675,8 -725,3 993,2 0.86 0.04 0,23 0.23 0.04 0,24 0.24 0.24 0.24 0.24 0.25 0.24 0.04 0,453,0 1.50 0.31,50 0.498,3 0.498,3 0.44 0.409,3 0.09 0.99 0.09 0.00 0,4621,0 14,0 315,50 3,404,50 0.498,3 0.44 0.409,3 0.09 0.99 0.99	3,521.0	17.40	315.40	3,431.7	436.7	-494.0	659.0	1.28	0.68	3.64
3 653 0									0.00	3.18
3 653 0	3,609.0	17 10	316 40	3,515.7	455.7	-512 1	685.2	0.73	-0.68	-0.91
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	5,237.0	13.10	315.20	5,091.8	749.6	-794.0	1,092.0			0.91 0.00



Survey Report



Company:

NEWFIELD EXPLORATION

Project:

USGS Myton SW (UT) SECTION 10 T9S, R16E

Site: Well:

W-3-9-16

Wellbore: Design: Wellbore #1 Actual Local Co-ordinate Reference:

TVD Reference:

Well W-3-9-16

W-3-9-16 @ 5643.0ft (NDSI SS#1) W-3-9-16 @ 5643.0ft (NDSI SS#1)

MD Reference: North Reference:

True

Survey Calculation Method:

Minimum Curvature

Database:

EDM 2003.21 Single User Db

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
5,325.0	13.30	314.30	5,177.4	763.9	-808.3	1,112.1	0.47	0.00	-2.05
5,369.0	13.20	312.20	5,220.3	770.8	-815.6	1,122.2	1.12	-0.23	-4.77
5,413.0	13.70	312.10	5,263.1	777.7	-823.2	1,132.4	1.14	1.14	-0.23
5,457.0	14.20	312.60	5,305.8	784.8	-831.0	1,143.0	1.17	1.14	1.14
5,501.0	13.70	313.30	5,348.5	792.0	-838.8	1,153.6	1.20	-1.14	1.59
5,545.0	13.50	315.30	5,391.2	799.2	-846.2	1,164.0	1.16	-0.45	4.55
5,589.0	13.40	315.10	5,434.0	806.5	-853.4	1,174.2	0.25	-0.23	-0.45
5,633.0	12.60	315.40	5,476.9	813.5	-860.4	1,184.1	1.82	-1.82	0.68
5,677.0	12.30	316.60	5,519.9	820.4	-867.0	1,193.6	0.90	-0.68	2.73
5,721.0	12.30	317.70	5,562.9	827.2	-873.4	1,202.9	0.53	0.00	2.50
5,765.0	12.50	316.50	5,605.8	834.2	-879.8	1,212.4	0.74	0.45	-2.73
5,809.0	13.10	316.60	5,648.7	841.2	-886.5	1,222.1	1.36	1.36	0.23
5,853.0	13.80	318.20	5,691.5	848.8	-893.4	1,232.3	1.80	1.59	3.64
5,897.0	14.10	317.80	5,734.2	856.6	-900.5	1,242.9	0.72	0.68	-0.91
5,941.0	14.20	317.60	5,776.9	864.6	-907.8	1,253.6	0.25	0.23	-0.45
6,029.0	14.10	317.80	5,862.2	880.5	-922.2	1,275.0	0.13	-0.11	0.23
6,073.0	14.80	318.60	5,904.8	888.7	-929.6	1,286.0	1.65	1.59	1.82
6,117.0	15.30	320.60	5,947.3	897.4	-937.0	1,297.3	1.64	1.14	4.55
6,161.0	14.30	323.70	5,989.9	906.3	-943.9	1,308.4	2.90	-2.27	7.05
6,205.0	12.30	325,00	6,032.7	914.5	-949.8	1,318.4	4.60	-4.55	2.95
6,249.0	11.30	328.30	6,075.8	922.0	-954.7	1,327.1	2.74	-2.27	7.50
6,287.0	11.00	329.50	6,113.0	928.3	-958.5	1,334.2	1.00	-0.79	3.16
6,339.0	11.00	329.50	6,164.1	936.8 👟	963.5	1,343.7	0.00	0.00	0.00

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Checked By:	Approved By:	Date:
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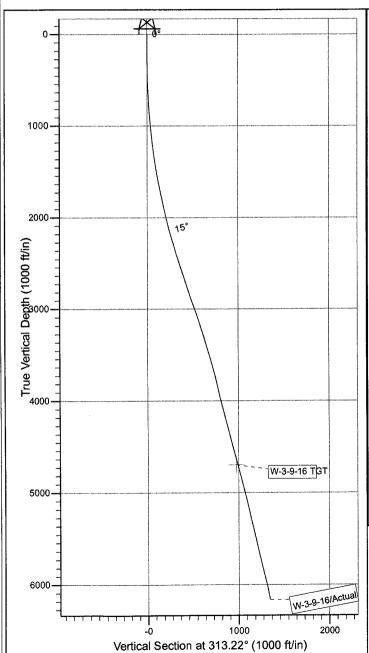
Project: USGS Myton SW (UT) Site: SECTION 10 T9S, R16E

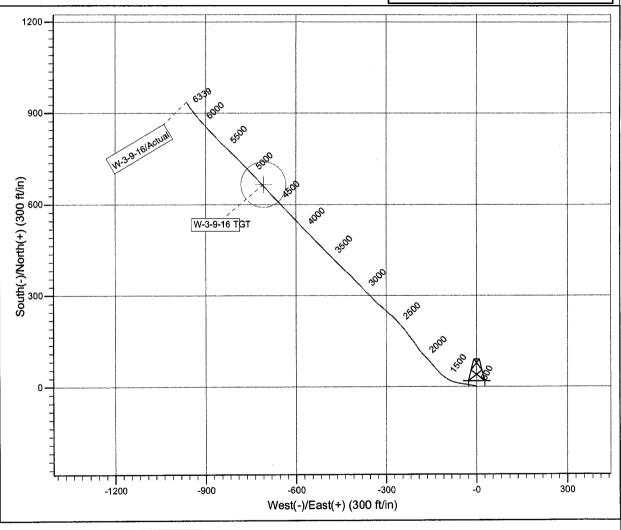
Well: W-3-9-16 Wellbore: Wellbore #1 Design: Actual



Azimuths to True North Magnetic North: 11.39°

Magnetic Field Strength: 52315.2snT Dip Angle: 65.80° Date: 12/18/2010 Model: IGRF2010







Design: Actual (W-3-9-16/Wellbore #1)

Created By: Sarah Well

Date:

11:39, October 26 201

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA

Daily Activity Report

Format For Sundry GMBU W-3-9-16 7/1/2011 To 11/30/2011

GMBU W-3-9-16

Waiting on Cement

Date: 9/13/2011

Ross #26 at 313. Days Since Spud - On 9/12/11 Ross #26 spud and drilled 315' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set - yield. Returned 4bbls to pit, bump plug to 400psi, BLM and State were notified of spud via email. - 313.37'KB. On 9/13/11 cement w/BJ w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17

Daily Cost: \$0

Cumulative Cost: \$57,376

GMBU W-3-9-16 Rigging down

Date: 9/25/2011

NDSI SS #1 at 313. 0 Days Since Spud - Rig down and prepare for field rig move

Daily Cost: \$0

Cumulative Cost: \$58,255

GMBU W-3-9-16 Drill 7 7/8" hole with fresh water

Date: 9/26/2011

NDSI SS #1 at 2473. 1 Days Since Spud - Move rig 2.2miles, set equipment, rig up - P/U Bit, m.m, directional tools, scribe, HWDP and tag @ 270' - Drill 7 7/8" hole F/ 270' to 2473' w/ 20K WOB, TRPM-170, GPM-390, Avg ROP-152 ft/hr - No H2S or flow reported in last 24 hours - Rig up B&C and test top drive, Pipe&Blinds, Choke to 2000#/10 min, Casing to 1500#/30 min

Daily Cost: \$0

Cumulative Cost: \$97,538

GMBU W-3-9-16 Drill 7 7/8" hole with fresh water

Date: 9/27/2011

NDSI SS #1 at 4981. 2 Days Since Spud - Drill 7 7/8" hole f/ 3881' to 4981' w/ 20K WOB,TRPM-170,GPM-390,Avg ROP- 92 ft/hr - Rig Service, check crownomatic and BOP - Drill 7 7/8" hole F/ 2473' to 3881' w/20K WOB,TRPM-170,GPM-390,Avg ROP-122 ft/hr - No H2S or flow reported in last 24 hours

Daily Cost: \$0

Cumulative Cost: \$119,757

GMBU W-3-9-16 Drill 7 7/8" hole with fresh water

Date: 9/28/2011

NDSI SS #1 at 6169. 3 Days Since Spud - Pump pill, TOOH to change mud motor, - Drill 7 7/8" hole F/ 4981' to 5245' w/ 22K WOB,TRPM-170,GPM-390,Avg ROP-59 ft/hr - Change mud motor,bit and TIH, - Drill 7 7/8" hole F/ 5245' to 6169' w/ 20K WOB,TRPM-170,GPM-390,Avg

ROP- 80 ft/hr - Fill pipe and wash to bottom

Daily Cost: \$0

Cumulative Cost: \$182,318

GMBU W-3-9-16 Wait on Completion

Date: 9/29/2011

NDSI SS #1 at 6339. 4 Days Since Spud - returned 29 bbls to pit, bump plug to 1500#, BLM

and State were notified via email - tail @ 14.4ppg and 1.24 yield (50:50:2+.05#SF+3% KCL+.5%EC-1+.25#CF), displaced w/ 150 bbls of fresh - Cement w/ 230 sks of lead @11ppg and 3.53 yield (PLII+.05#SF+3%KCL+.5#CF+2#Kol seal) and 450 sks of - Circulate and rig up BJ Hardlines - Run 152 jts of 5.5",J-55,15.5# LTC set @ 6335.48', short jt @ 3547.71 - Change rams, R/U B&C Quicktest and test 5.5" rams to 2000#/10 min - Clean mud tanks - Lay down drill pipe and BHA - Pump Hi vis Sweep and circulate for lay down - Drill 7 7/8" hole F/ 6169' to 6339' w/ 22K WOB,TRPM-170,GPM-390,Avg ROP-170 ft/hr - R/U PSI and Log, Loggers TD -6342' to surface,(compensated neutron,Density,gamma ray)

Daily Cost: \$0

Cumulative Cost: \$328,324

GMBU W-3-9-16

Wait on Completion

Date: 9/30/2011

NDSI SS #1 at 6339. 5 Days Since Spud - Release rig @ 06:30 AM 9-29-11 - Clean mud

tanks Finalized
Daily Cost: \$0

Cumulative Cost: \$328,939

Pertinent Files: Go to File List